

AD-A050 439

ARINC RESEARCH CORP ANNAPOLIS MD  
SHIP SYSTEMS DEFINITION AND INDEX (SWBS STAGING DIAGRAMS) FOR F--ETC(U)  
OCT 76

F/G 13/10

N00140-76-D-0813

NL

UNCLASSIFIED

1804-01-1-1547R

1 OF 3  
AD A050439



FILED

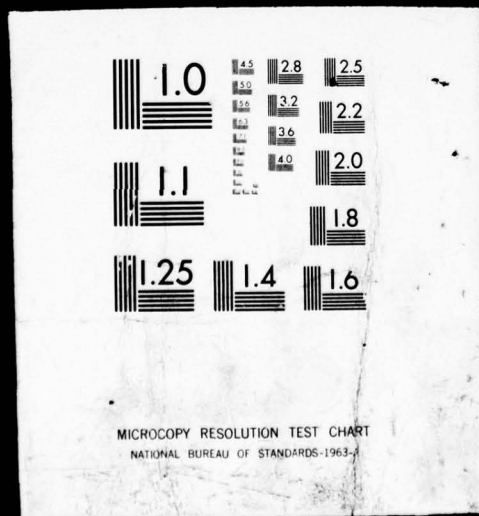
1

OF

3

AD

A050439

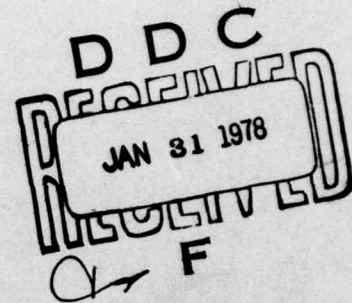




AD A050439

SHIP SYSTEMS DEFINITION AND INDEX  
(SWBS STAGING DIAGRAMS)  
FOR FF-1052 CLASS SHIPS

October 1976  
Revised August 1977

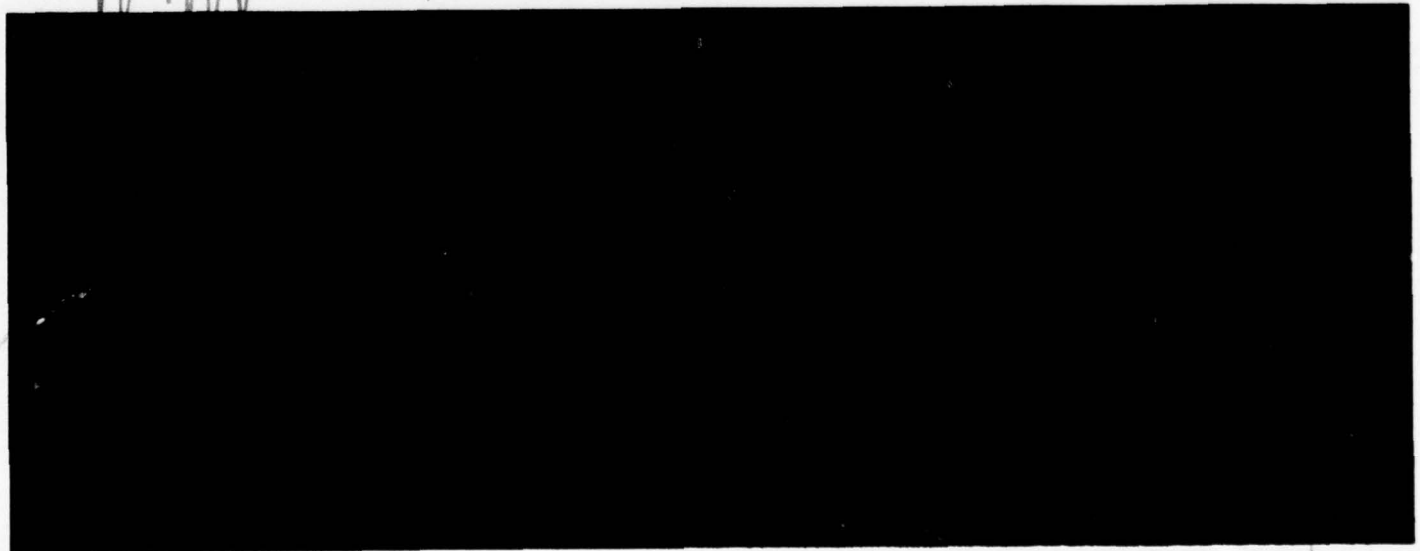


Prepared for  
PEARL HARBOR NAVAL SHIPYARD  
Under Contract N00140-76-D-0813-0006

**DISTRIBUTION STATEMENT A**

Approved for public release;  
Distribution Unlimited

**ARINC** RESEARCH CORPORATION



Unclassified

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 1804-01-1-1547R	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) SHIP SYSTEMS DEFINITION AND INDEX (SUBS STAGING DIAGRAMS) FOR FF-1052 CLASS SHIPS		5. TYPE OF REPORT & PERIOD COVERED
		6. PERFORMING ORG. REPORT NUMBER 1804-01-1-1547R
7. AUTHOR(s)  NO AUTHOR LISTED		8. CONTRACT OR GRANT NUMBER(s)  N00140-76-D-0813-0006
9. PERFORMING ORGANIZATION NAME AND ADDRESS ARINC Research Corp ✓ 2551 Riva Road Annapolis, Md. 21401		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
11. CONTROLLING OFFICE NAME AND ADDRESS PEARL HARBOR NAVAL SHIPYARD		12. REPORT DATE August 1977
		13. NUMBER OF PAGES 142
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) PEARL HARBOR NAVAL SHIPYARD		15. SECURITY CLASS. (of this report)  Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)  Unclassified/Unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)  Revisions incorporating changes resulting from application experience of the FF-1052 Class Ship System Definition and Index (SSDI) (publication 1630-01-1-1389, April 1975) were made, along with revisions of the equipment-level code numbers in accordance with a newly issued Component Code Dictionary. The SSDI is an orderly identification and structuring of the systems and sub-systems that make up a ship. In defining ship systems as well as their boundaries and interfaces, the SSDI provides a common language for communi-		

DD FORM 1 JAN 73 1473

EDITION OF 1 NOV 65 IS OBSOLETE

Unclassified next page  
SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

cont.

cating information about ship configurations and is thus useful to many naval activities involved in the operation, maintenance, modernization, and support of ships.



<p>1. REPORT DATE August 1977</p> <p>2. REPORT TYPE Final Report</p> <p>3. REPORT NUMBER DAAG-01-1-1747</p> <p>4. AUTHOR NO AUTHOR LISTED</p> <p>5. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) ARINC Research Corp. 3851 River Road Annapolis, Md. 21401</p> <p>6. PERFORMING ORGANIZATION REPORT NUMBER DAAG-01-1-1747</p> <p>7. AUTHOR NO AUTHOR LISTED</p> <p>8. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) ARINC Research Corp. 3851 River Road Annapolis, Md. 21401</p> <p>9. PERFORMING ORGANIZATION REPORT NUMBER DAAG-01-1-1747</p> <p>10. SECURITY CLASSIFICATION Unclassified</p>	<p>11. SECURITY CLASSIFICATION Unclassified</p> <p>12. SECURITY CLASSIFICATION Unclassified</p> <p>13. SECURITY CLASSIFICATION Unclassified</p> <p>14. SECURITY CLASSIFICATION Unclassified</p> <p>15. SECURITY CLASSIFICATION Unclassified</p> <p>16. SECURITY CLASSIFICATION Unclassified</p> <p>17. SECURITY CLASSIFICATION Unclassified</p> <p>18. SECURITY CLASSIFICATION Unclassified</p> <p>19. SECURITY CLASSIFICATION Unclassified</p> <p>20. SECURITY CLASSIFICATION Unclassified</p>
---	---



②  
SHIP SYSTEMS DEFINITION AND INDEX  
(SWBS STAGING DIAGRAMS)  
FOR FF-1052 CLASS SHIPS

⑪  
October 1976  
Revised August 1977

⑫ 274p.

Prepared for  
PEARL HARBOR NAVAL SHIPYARD  
Under Contract N00140-76-D-0813-0096

Tank

⑬  
DISTRIBUTION STATEMENT A

Approved for public release;  
Distribution Unlimited

 **ARINC** RESEARCH CORPORATION

CORPORATE HEADQUARTERS  
2551 Riva Road  
Annapolis, MD 21401

HONOLULU SUPPORT OFFICE  
245 Fort Street, Suite 211  
Honolulu, HI 96801

⑭  
Publication 1804-01-1-1547R

400 247

Y/B

Copyright © 1977  
ARINC Research Corporation

Prepared under Contract N00140-76-D-0813-0006,  
which grants to the U.S. Government a license to  
use any material in this publication for government  
purposes.

SHIP SYSTEMS DEFINITION AND INDEX  
(SWBS STAGING DIAGRAMS)  
FOR FF-1052 CLASS SHIPS

August 1977

PEARL HARBOR NAVAL SHIPYARD

ACCESSION for		
NTIS		<input checked="" type="checkbox"/>
DDC	B	<input type="checkbox"/>
UNANNOUNCED		<input type="checkbox"/>
JUSTIFICATION	<i>Per Commission file</i>	
BY		
DISTRIBUTION/AVAILABILITY CODES		
Dist.		SPECIAL
A		



## ABBREVIATIONS

A.P.	- After Perpendicular
APL	- Allowance Parts List
ASROC	- Anti-Submarine Rocket
ASW	- Anti-Submarine Warfare
CDC	- Component Dictionary Code
C.L.	- Centerline
CNO	- Chief of Naval Operations
COSAL	- Coordinated Shipboard Allowance List
CPO	- Chief Petty Officer
CSMP	- Current Ship's Maintenance Project
DART	- Detection, Action, Response Technique
DoD	- Department of Defense
D.W.L.	- Designer's Waterline
EIC	- Equipment Identification Code
EOSS	- Equipment Operational Sequencing System
FLT CINCS	- Fleet Commanders-in-Chief
FMP	- Fleet Modernization Program
F.P.	- Forward Perpendicular
INSURV	- Board of Inspection and Survey
MDCS	- Maintenance Data Collection System
MOTU	- Mobile Technical Unit
NAVAIR	- Naval Air Systems Command
NAVELEX	- Naval Electronics Systems Command
NAVPERS	- Naval Personnel
NAVSEA	- Naval Sea Systems Command
NAVSEC	- Naval Ships Engineering Center
NAVSUP	- Naval Supply
NMMFO	- Navy Maintenance Management Field Office
NOSO	- Naval Ordnance Support Office
PMS	- Planned Maintenance System
POT&I	- Preoverhaul Test and Inspection
ROH	- Regular Overhaul
SECAS	- Ship Equipment Configuration Accounting System
SSDI	- Ship Systems Definition and Index
SWBS	- Ship Work Breakdown Structure
SYSCOM	- Systems Command
TYCOM	- Type Commander

## CONTENTS

ABBREVIATIONS . . . . .	iii
1. INTRODUCTION . . . . .	1
2. PROPERTIES OF SSDI . . . . .	3
3. USES OF SSDI . . . . .	9
3.1 SSDI Support to Ship's Force . . . . .	9
3.1.1 Maintenance . . . . .	9
3.1.2 Operation . . . . .	10
3.1.3 Training. . . . .	10
3.2 SSDI Support to Other Naval Activities . . . . .	10
3.2.1 PERAs/Shipyards/Industrial Activities . . . . .	10
3.2.2 Ship Equipment Configuration Accounting System (SECAS) . . . . .	11
3.2.3 Technical Systems Commands (NAVSEA, NAVELEX). . . . .	11
3.2.4 Type Commanders (TYCOMs). . . . .	11
3.2.5 Naval Ships Engineering Center (NAVSEC) . . . . .	11
3.2.6 Fleet Support Activities. . . . .	12
4. GENERAL INFORMATION, FF-1052 CLASS . . . . .	13
4.1 Basis of Hull Measurements. . . . .	13
4.2 General Dimensions and Characteristics . . . . .	13
4.3 Heights Above D.W.L. . . . .	13
4.4 Small Boats . . . . .	14
4.5 Berthing Accommodations . . . . .	14
4.6 Capacity of Booms and Cranes . . . . .	15
4.7 Frame Spacing . . . . .	15
4.8 Tank Capacities at Full Load Conditions for FF-1052 - 1077 . . . . .	15
5. SSDI FOR FF-1052 CLASS SHIPS . . . . .	17
5.1 SSDI Index. . . . .	17
5.2 General Comments. . . . .	17
Ship Systems Definition and Index for FF-1052 Class Ships . . . . .	19
APPENDIX A: Component Dictionary Code List . . . . .	A-1



## 1. INTRODUCTION

The Ship Systems Definition and Index (SSDI) is an orderly identification and structuring of the systems and subsystems that make up a ship. In defining ship systems as well as their boundaries and interfaces, the SSDI provides a common language for communicating information about ship configurations. The SSDI is thus useful to all naval activities involved in the life cycle operation, maintenance, modernization, and support of ships.

The SSDI presented herein is a revision of the FF-1052 Class SSDI\* issued in October 1976. This revision incorporates changes to the coding identifications of systems, subsystems, and equipments to bring them into conformance with the current SWBS/SWABS/SECAS Staging Index for Surface Ships. The Staging Index, and its supporting Component Dictionary Code, is compatible with the Ships Work Breakdown Structure (SWBS) and the Ship Work Authorization Boundary (SWAB) descriptions.

This report discusses the general properties of SSDIs (Section 2); points out the many ways that SSDIs can be utilized by the various Navy activities (Section 3); provides general information on FF-1052 class ships (Section 4); and presents the SSDIs for the FF-1052 class (Section 5).

A050439

\*ARINC Research Corporation, Ship Systems Definition and Index (SWBS Staging Diagrams) for FF-1052 Class Ships, Publication 1804-01-1-1547, October 1976.  
Prepared for Pearl Harbor Naval Shipyard under Contract N00140-76-D-0813-0004.

## 2. PROPERTIES OF SSDI

The hierarchical concept on which the Ship Systems Definition and Index is based is illustrated in Figure 1. As can be seen, the SSDI is structured such that the summation of SSDI items at any level defines the total ship. An actual application of Figure 1, showing a typical ship breakdown from the major system to the sub-subsystem level, is presented in Figure 2.

As illustrated by Figures 1 and 2, the SSDI is structured to:

- a. Provide a multi-level breakdown of the ship's configuration.
- b. Completely define the ship at each level.
- c. Contain no redundancies in its definition of the ship.
- d. Utilize the Ships Work Breakdown Structure (SWBS). This provides a standard language based on the same nomenclature and coding system that is mandatory for use on a Navy-wide basis.
- e. Utilize a standard Navy Staging Index for fourth-level identification codes and utilize a standard Navy Component Dictionary Code list (see Appendix A) for assigning fifth-level identification codes. The last two characters of the identifier are from this list, e.g., 2551M7.
- f. Tailor the SWBS to the configuration of a specific ship class. The ship class diagrams can in turn be tailored to the configuration of each ship within the class.

Figure 3 extends a portion of Figure 2 to an additional level of detail to demonstrate the information provided in the SSDI. As shown, the following are identified:

- a. System equipments
- b. System boundaries
- c. Shipboard maintenance work centers.

In some cases, notably for the more complex systems, the SSDI provides still further information in the form of line diagrams that depict:

- a. Major hardware items within the system boundaries, and their interrelationships.
- b. The verbal description shown on the system diagrams for selected SWBS-coded items. Those systems which are complex and interface with other complex systems are diagrammed as Figure 4 indicates.

c. The selected system's boundaries and interrelated SWBSs.

In a line diagram, solid lines within the system boundary denote equipments or components that are part of that particular system. Dashed lines show interfaces between those equipments/components and elements of other systems (see Figure 4).

Although some of the line diagrams show functional relationships, their specific purpose is to aid in the identification of ship systems. For that reason, the diagrams are greatly simplified from the actual configuration. For example, although there may be two or more identical forced-draft blowers in a combustion air system, only one is shown on the schematic (see Figure 4). This is because all blowers of the same type are part of the same system.



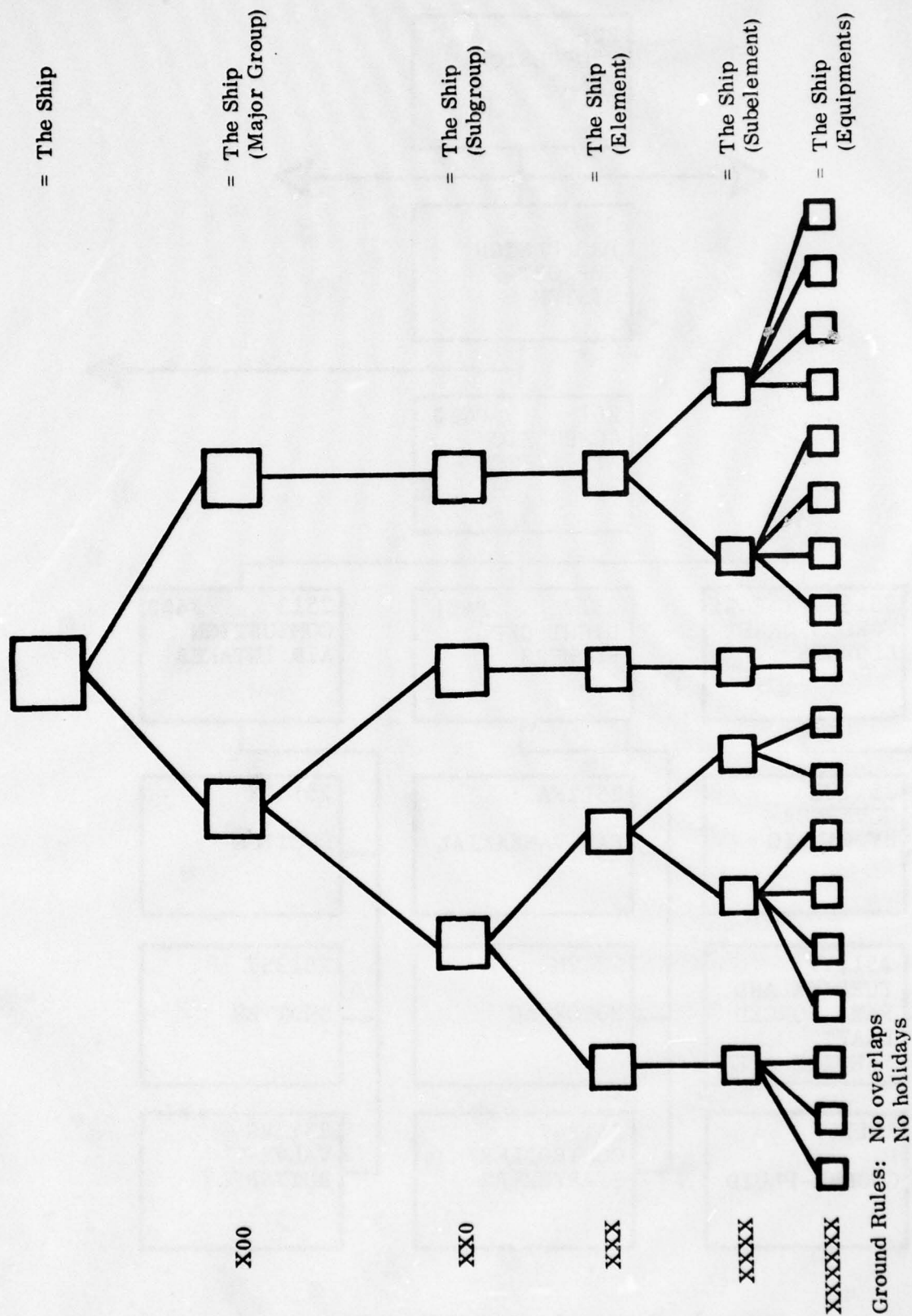


Figure 1. SSDI Concept

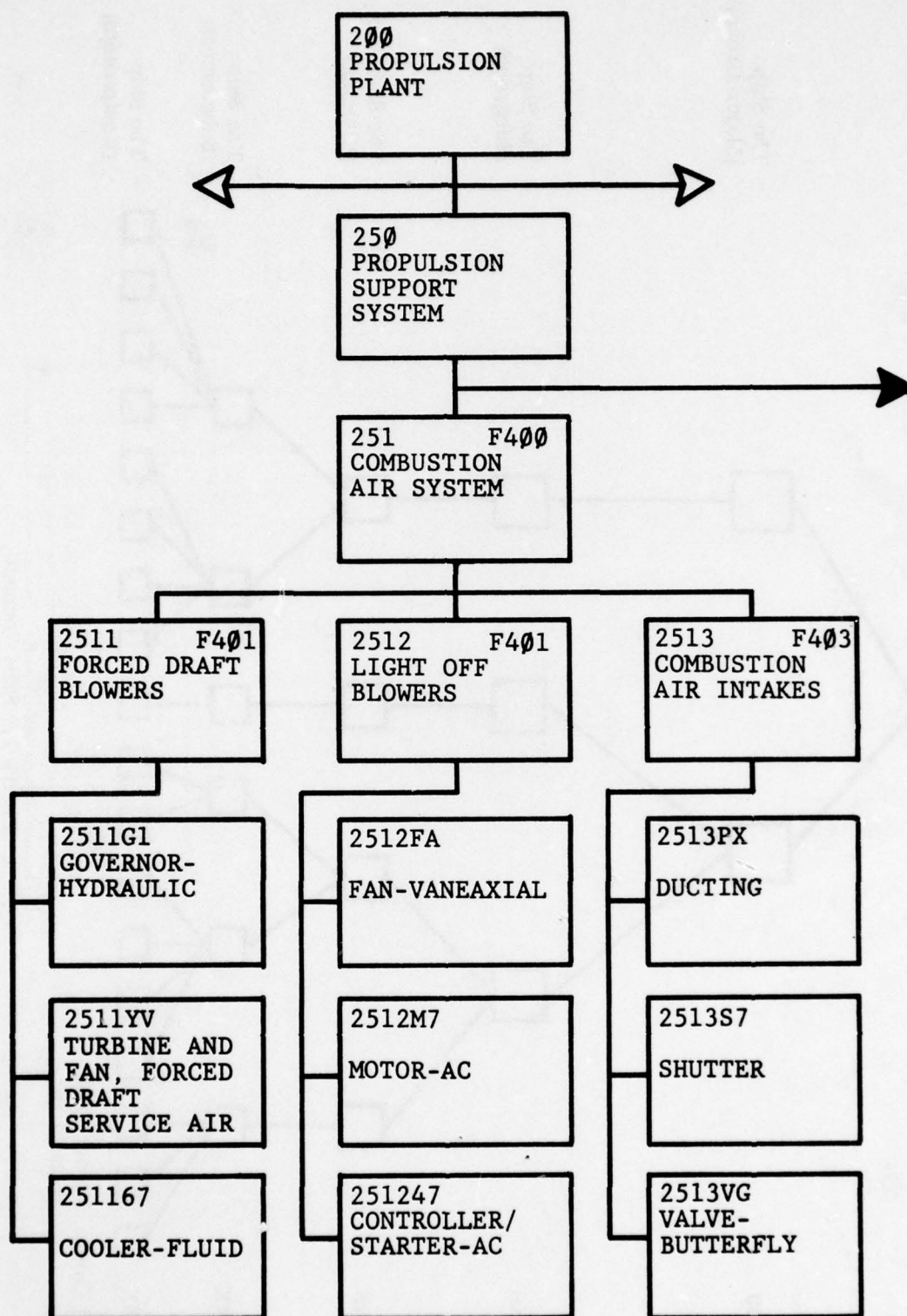


Figure 2. Portion of a Typical Ship's System

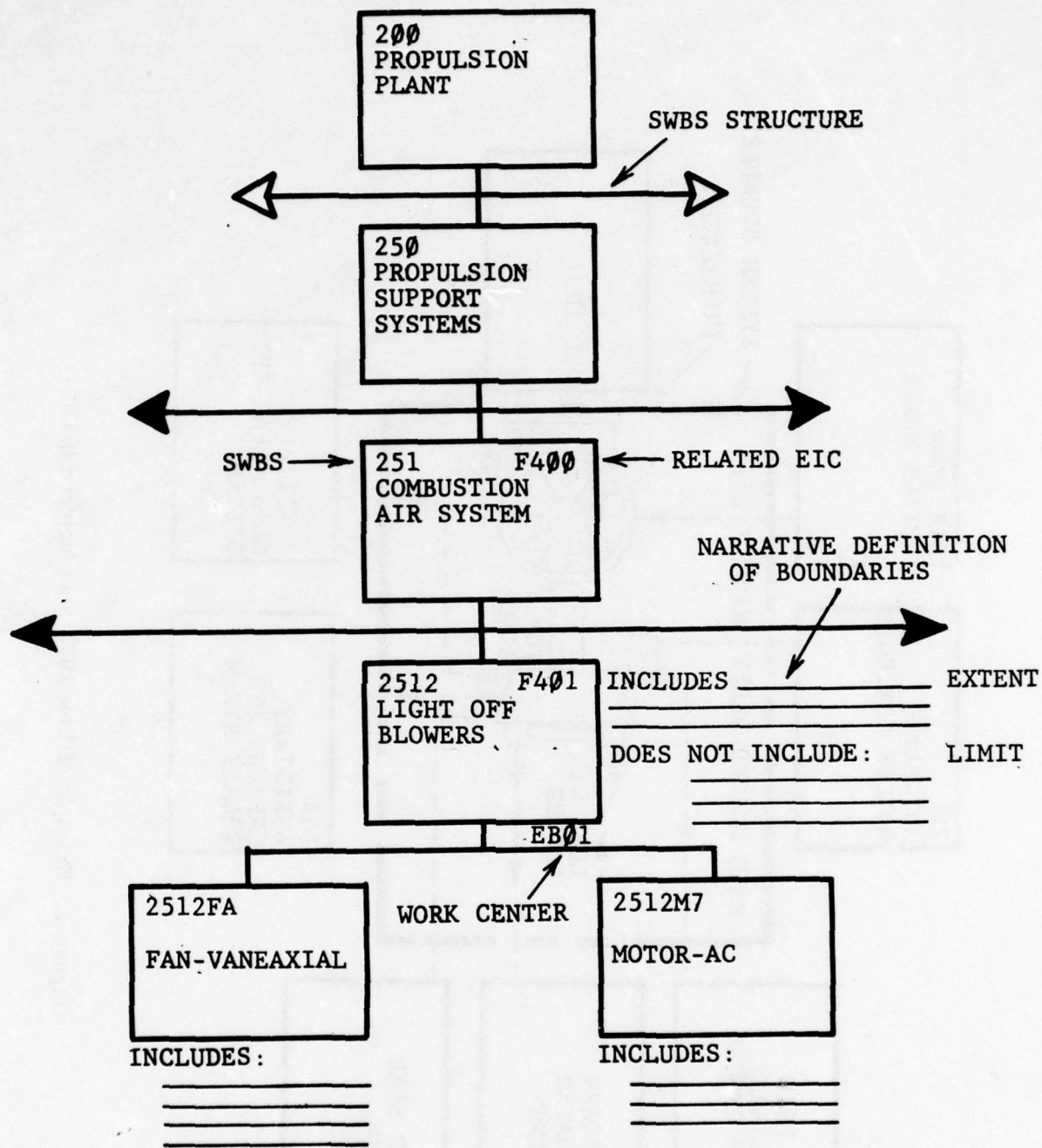


Figure 3. Example of System Diagrams Included in SSDI



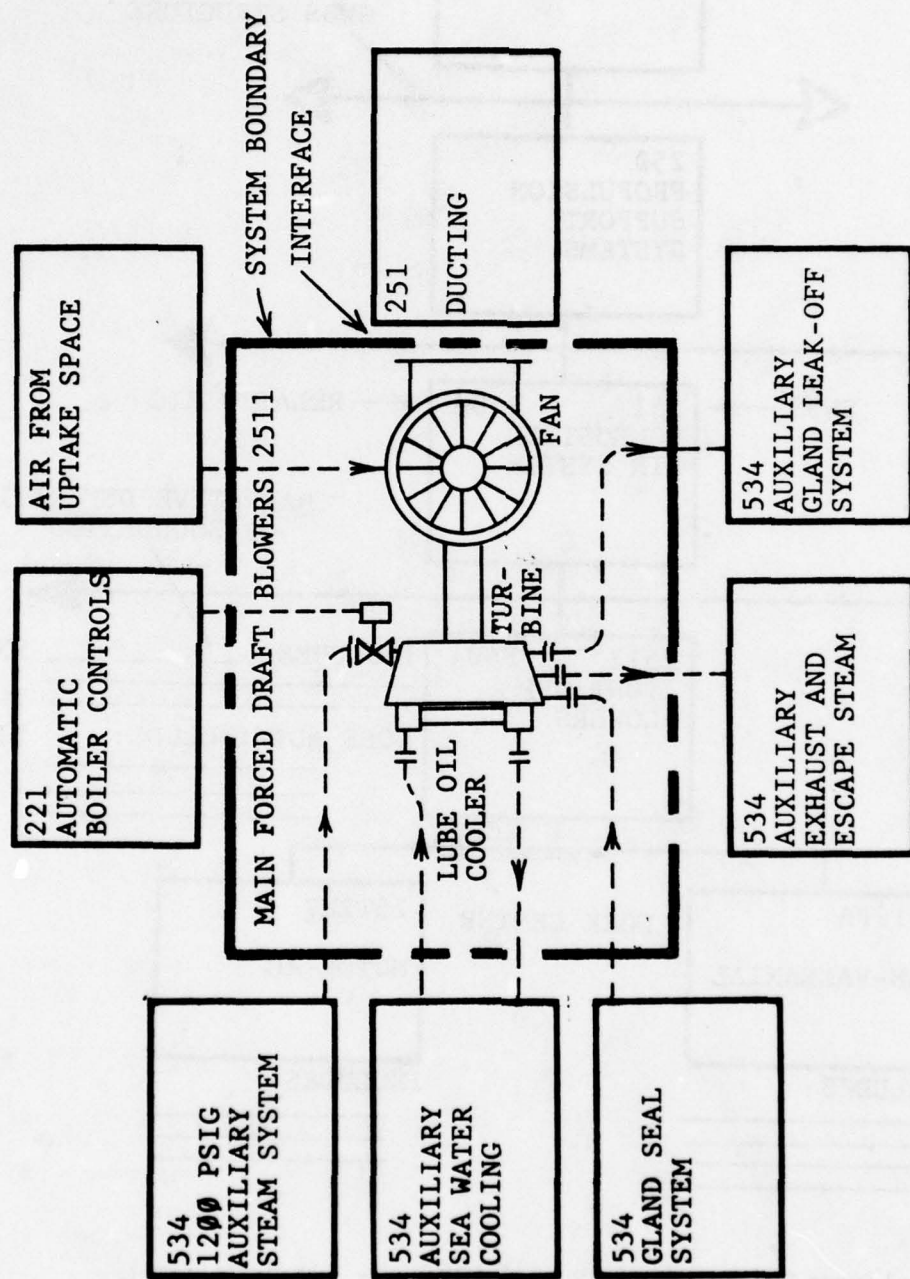


Figure 4. Example of Line Diagrams Included in SSDI

### 3. USES OF SSDI

Throughout a ship's life, ship's force personnel submit a vast amount of system, equipment, and parts information to their type commander and fleet support activities. Requests for alteration, reports of maintenance action, work requests, and parts requisitions are but a few examples. In each instance the submitted information must be related to a specific, definable portion of the ship.

In carrying out their responsibilities, the type commander and the support activities must not only identify a specific item within the total ship, but also be aware of its interfaces. In planning alterations or modifications, for example, the technical systems commands (NAVSEA, NAVELEX, NAVAIR) must be able to identify the various systems that will be affected by a particular change to a ship's configuration. Also, when preparing for overhaul or other availabilities, the type commander and repair activities must be able to organize a work package on the basis of specific as well as interrelated ship systems. This is done to ensure that the work package is completely and effectively defined.

Since so many activities are involved in supporting the ship, it is necessary that both ship and support personnel use a single, uniform language when communicating configuration information. The Ship Systems Definition and Index provides this common language by describing a specific ship in terms common to all ships of the fleet. Potential uses of the SSDI are outlined below.

#### 3.1 SSDI SUPPORT TO SHIP'S FORCE

##### 3.1.1 Maintenance

- a. Serves as a checklist for planning and conducting inspection.
- b. Provides the basis for comparing repair items with alterations.
- c. Aids in establishing repair priorities.
- d. Assists in identifying shipyard, intermediate maintenance activities, and ship's force interfaces.
- e. Assists in making manpower assignments by ensuring that all systems of the ship are considered.
- f. Aids ship's force in "buttoning up" all systems for post-repair testing.
- g. Aids in alteration planning and analysis by showing possible interfaces in terms of various ship systems.
- h. Aids in standardizing shipboard validation procedures.



- i. Provides a means of identifying deficiencies in shipboard documentation such as the Coordinated Shipboard Allowance List (COSAL), Planned Maintenance System (PMS), etc.
- j. Provides a capability for reducing duplication in validation programs.
- k. Assists in identifying Equipment Identification Codes (EIC) necessary for Current Ship's Maintenance Project (CSMP) and Maintenance Data Collection System (MDCS).
- l. Provides a standard language for maintenance documentation.
- m. Provides a common set of system descriptions for the development of maintenance instructions (PMS) and operating instructions (Equipment Operational Sequencing System, EOSS).

### 3.1.2 Operation

- a. Serves as a checklist for determining the completeness of EOSS coverage.
- b. Provides a means of identifying interrelationships among operating systems.
- c. Identifies the boundaries for system testing.
- d. Provides a means of determining test equipment and support requirements.

### 3.1.3 Training

- a. Provides a disciplined method for displaying a ship's configuration, thereby identifying training requirements from the equipment through the system level.
- b. Supports training shipboard operation/maintenance personnel in ship systems and system interfaces.

## 3.2 SSDI SUPPORT TO OTHER NAVAL ACTIVITIES

### 3.2.1 PERAs/Shipyards/Industrial Activities

- a. Defines ship systems for alteration and repair planning.
- b. Provides a standard indexing language for:
  - Ship Alteration and Repair Package (SARP)
  - Specification preparation
  - Cost estimating and progressing
  - Drawing numbering

- Material identification and ordering
  - Pre-Overhaul Test and Inspection (POT&I) planning and organization
  - Management information systems.
- c. Assists in determining priorities of work by displaying the affected equipment in relation to its system.

#### 3.2.2 Ship Equipment Configuration Accounting System (SECAS)

- a. Provides a standard structure for total shipboard validation.
- b. Provides information for determining the desired level of validation.

#### 3.2.3 Technical System Commands (NAVSEA, NAVELEX)

- a. Aids in determining the SWBS identification of alterations for inclusion in shipalt records and subsequently in other Navy data bases.
- b. Identifies ship systems such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the Fleet Modernization Program (FMP).
- c. Provides a means for ensuring that standard failure-data correlation and analysis is performed to the desired level.

#### 3.2.4 Type Commanders (TYCOMs)

- a. Aids in determining work priorities by displaying the affected equipment in relation to its system.
- b. Identifies the system such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the FMP.
- c. Enables the TYCOM to properly identify and budget the system for repairs.

#### 3.2.5 Naval Ships Engineering Center (NAVSEC)

- a. Provides a vehicle for ensuring that standard failure-data correlation and analysis is performed to the desired level.
- b. Defines the systems for design consideration and subsequent corrective measures such as the Detection, Action, Response Technique (DART) program.
- c. Provides information for determining the required level of repair parts support requirements.

### **3.2.6 Fleet Support Activities**

- a. Identifies shipboard systems as an aid in determining personnel and material requirements in response to solving specific ship problems.**
- b. Serves as a tool for establishing required support capabilities (people and equipment).**



#### 4. GENERAL INFORMATION, FF-1052 CLASS

The data given in this section are generally applicable to the FF-1052 class. For individual ships of this class, consult the appropriate Ship's Information Book.

##### 4.1 BASIS OF HULL MEASUREMENTS

The designers waterline (D.W.L.) is the waterline corresponding to the normal displacement and draft. This waterline is 14' 9" above and parallel to the molded base line, and is the draft datum line for showing heights of superstructure, rigging, etc., as authorized by NAVSEA. This datum line is measured from the bottom of the keel plate amidships, which is 1/4" below the molded base line.

The forward perpendicular (F.P.) is a vertical passing through the point where the designer's waterline and the forward side of the ship's stern intersect. The after perpendicular (A.P.) is a vertical passing through the point where the designer's waterline and the molded line of the ship's stern intersect.

##### 4.2 GENERAL DIMENSIONS AND CHARACTERISTICS

Length, between perpendiculars	415' - 0"
Length, overall	438' - 0"
Breadth, extreme	46' - 7 1/4"
Draft above bottom of keel amidships (D.W.L.)	14' - 9 7/8"
Draft above lowest projection below keel (D.W.L.)	24' - 8 1/4"
Displacement to D.W.L. (salt water)	3,945 tons

##### 4.3 HEIGHTS ABOVE D.W.L.

(D.W.L. 14' - 9" above molded base line)

Quadmast, including antenna No. 4-2	104' - 2 1/2"
C. L. of homing beacon	107' - 6 1/8"
C. L. of forward anchor light	44' - 0"
C. L. of masthead light	56' - 11 1/4"
C. L. of towing lights	
Upper	62' - 11 1/4"
Lower	50' - 11 1/4"
C. L. of sidelight (P/S)	33' - 0 3/4"
C. L. of blinker light (P/S)	72' - 7 1/2"
C. L. of range light	92' - 10"
C. L. of speed and aircraft warning lights (P/S)	118' - 1 5/8"
C. L. of ASW light	98' - 11 1/2"

C.L. of man overboard and breakdown lights (2)  
and ships task lights (3)

Upper	118' - 7 3/8"
Middle	112' - 1 3/8"
Lower	105' - 7 3/8"
C.L. of aft anchor light	28' - 9"
C.L. of white stern light	19' - 9 7/16"
C.L. of blue stern light	18' - 5 7/16"
C.L. of wake light (P)	17' - 3' 5/16"
C.W.P. of rotating antenna No. 5-1	101' - 11 1/2"
C.W.P. of rotating antenna No. 5-2	81' - 4 1/2"
Underside of platform on quadmast	92' - 1 1/2"
06 level at top of billboard	67' - 1 1/2"
05 level at top of mack	58' - 1 1/2"
04 level in uptake space	49' - 1 1/2"
03 level at C.L. - aft FR 45	42' - 6 1/8"
03 level at C.L. - FR 54 (gun director platform)	44' - 11 1/2"
03 level in uptake space	40' - 1 1/2"
C.I.C. high hat	37' - 7 1/8"
02 level at C.L. - FR 45 1/2 (pilot house)	34' - 6 1/8"
02 level - FR 54 to 6" aft FR 69 (otbd C.I.C. high hat)	36' - 5 1/8"
02 level at C.L. - 6" aft FR 69	31' - 6 1/2"
02 level at C.L. - FR 93	30' - 9 1/2"
02 level at C.L. - FR 101 to FR 110	32' - 6 1/8"
02 level at C.L. - FR 110 (top of helo hangar)	35' - 10 1/2"
01 level at C.L. - FR 45 1/2 to FR 54	26' - 6 1/8"
01 level at C.L. - FR 54	24' - 6 1/8"
01 level at C.L. - FR 147	23' - 5 1/4"

#### 4.4 SMALL BOATS

<u>No.</u>	<u>Name</u>	<u>Each</u>	<u>Total</u>
16	CO <sub>2</sub> Lifeboats	15	240
1	26' - 0" Personnel Boat	16	16
1	26' - 0" Motor Whaleboat	22	22
TOTAL			278

#### 4.5 BERTHING ACCOMMODATIONS

<u>Berths</u>		<u>Lockers</u>	
Officers	17	Type A	15
CPO	15	Type B	33
Crew	225	Peacoat	11
		CPO (Blue Uniform)	1
		CPO (Overcoat)	2

#### 4.6 CAPACITY OF BOOMS AND CRANES

Boat Boom	3900 lb
Bathythermograph Boom	400 lb
ASROC and Torpedo Handling Boom	4000 lb
Mk 37 and EX 10 Torpedo Trolley Hoist - No. 2	4000 lb
Torpedo Magazine Crane - No. 1	1000 lb
ASROC Handling System	1500 lb

#### 4.7 FRAME SPACING

Frames are numbered from 0 at the forward perpendicular to 166 at the after perpendicular. Frame spacing is 30" throughout.

Ships of the FF-1052 class are longitudinal framed vessels. Transverse framing does not exist at each frame numbered location. Transverse webs are spaced approximately every three frames between Frame 18 and the stern, and every two frames forward of Frame 18.

Part frames in the forward overhang are designated as "A", "B", "C", "D", "E", "F", and "G".

#### 4.8 TANK CAPACITIES AT FULL LOAD CONDITIONS FOR FF-1052 - 1077

<u>Tank</u>	<u>Gallons</u>	<u>Tons</u>
<b>a. <u>Potable Water</u></b>		
5-107-1-W	1,775	6.59
5-107-2-W	1,773	6.59
5-114-1-W	3,277	12.17
5-114-2-W	3,277	12.17
<b>Total</b>	<b>10,104</b>	<b>37.52</b>
<b>b. <u>Reserve Feed Water</u></b>		
3-92-1-W	2,351	8.73
3-92-2-W	2,351	8.73
5-107-0-W	3,280	12.18
5-110-0-W	3,622	13.45
<b>Total</b>	<b>11,604</b>	<b>43.09</b>
<b>c. <u>Lube Oil</u></b>		
5-101-1-F	1,078	3.70
5-104-3-F	1,034	3.55
<b>Total</b>	<b>2,112</b>	<b>7.25</b>



	<u>Tank</u>	<u>Gallons</u>	<u>Tons</u>
d.	<u>JP-5</u>		
	5-125-0-J	12,797	38.79
	5-137-0-J	13,661	41.41
	Service Tank	1,000	3.03
	Total	27,458	83.23
e.	<u>Fuel Oil</u>		
	(1) <u>Storage</u>		
	5-29-1-E	4,871	17.15
	5-29-2-F	4,871	17.15
	5-41-1-F	15,856	55.83
	5-41-2-F	15,856	55.83
	5-48-1-F	15,819	55.70
	5-48-2-F	15,819	55.70
	5-54-1-F	20,888	73.55
	5-54-2-F	20,888	73.55
	5-61-1-F	10,724	37.76
	5-61-2-F	10,724	37.76
	5-121-1-F	6,558	23.09
	5-121-4-F	5,430	19.12
	5-126-1-F	6,168	21.72
	5-126-2-F	6,168	21.72
	5-132-1-F	7,231	25.46
	5-132-2-F	7,231	25.46
	5-150-0-F	8,219	28.94
	Total	183,321	645.49
	(2) <u>Service</u>		
	4-76-0-F	12,320	43.38
	5-61-0-F	18,503	65.15
	Total	30,823	108.53
	Total Fuel Oil	214,144	754.02

## 5. SSDI FOR FF-1052 CLASS SHIPS

### 5.1 SSDI INDEX

The SSDI for FF-1052 class ships is presented on the following pages, in the indicated order.

Index Diagrams	Page
Overall	21
100 - Hull Structure	22
200 - Propulsion Plant	23
300 - Electric Plant	24
400 - Command and Surveillance	25
500 - Auxiliary Systems	26
600 - Outfit and Furnishings	27
700 - Armament	28
800 - Integration/Engineering	29
900 - Support Services	30
Legend of Symbols	31
System Diagrams	
100 - Hull Structure	35
200 - Propulsion Plant	45
300 - Electric Plant	91
400 - Command and Surveillance	107
500 - Auxiliary Systems	145
600 - Outfit and Furnishings	197
700 - Armament	223
800 - Integration/Engineering	237
900 - Support Services	243

The Legend of Symbols applies to the system diagrams that accompany certain of the index diagrams.

### 5.2 GENERAL COMMENTS

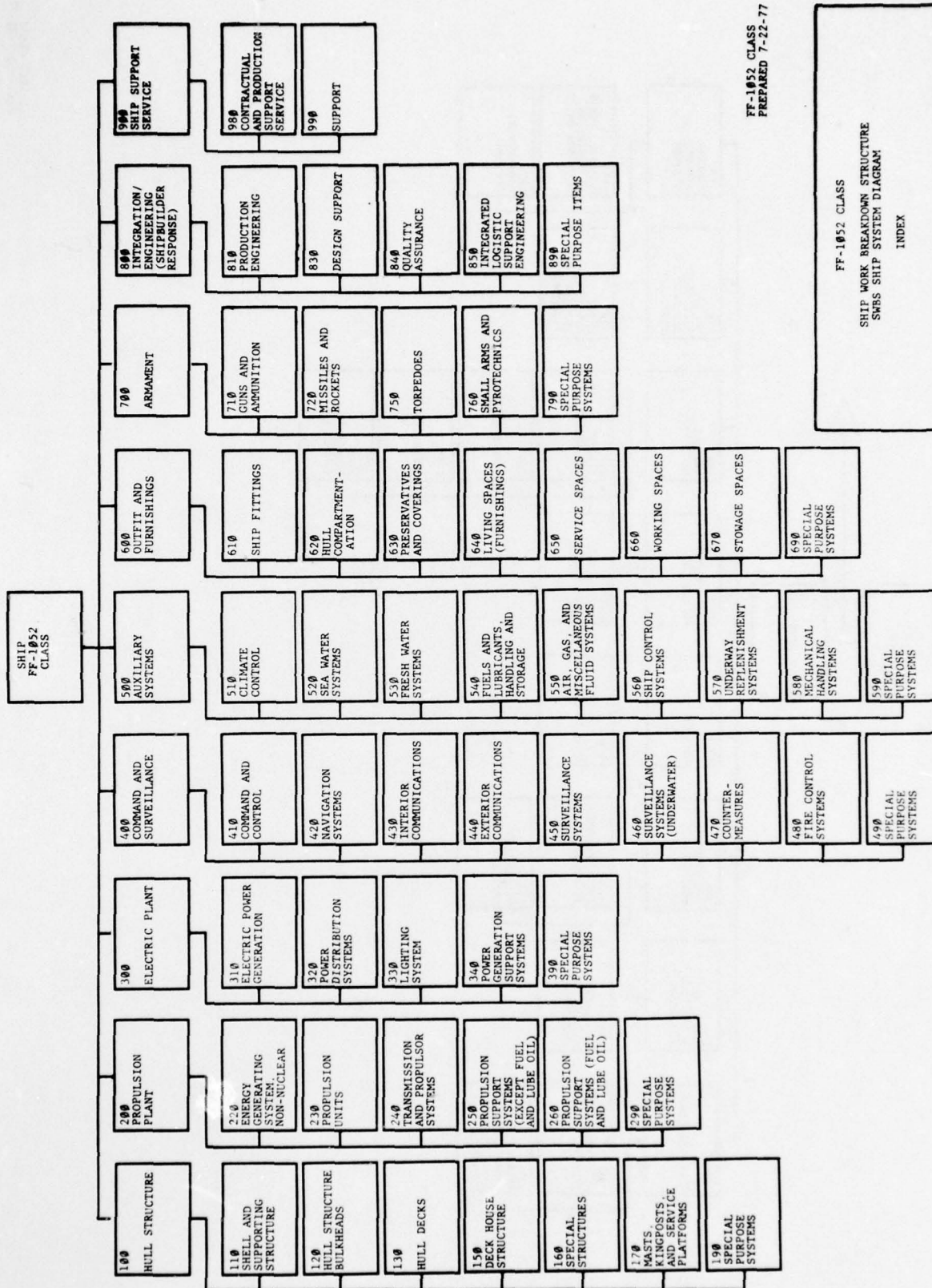
The following general comments apply to the FF-1052 class SSDI.

- a. This SSDI is structured to encompass the entire FF-1052 class, i.e., all identified combinations of systems and equipments have been included. Individual ships will not necessarily have all identified components because of such factors as ship alterations that have/have not been accomplished, variations due to construction differences, etc.



- b. In each SWBS group, elements X01 through X09 are used for general requirements, and element X98 for operating liquids. These non-hardware elements are indicated by dashed blocks.
- c. To maintain continuity of having equipments/components at the fifth level, some element titles are repeated at the fourth and fifth levels and appropriately numbered, e.g., element 163.
- d. The term "With System", or "W.S.", indicates that the item is coded with the system of which it is a part or which it serves.
- e. EIC cross-references are entered only in blocks with a direct cross-reference, i.e., same system, subsystem, and/or equipment as a SWBS classification.
- f. Work center assignments are representative. Use of the SSDI for specific ships of the class will require verification of applicable work centers.

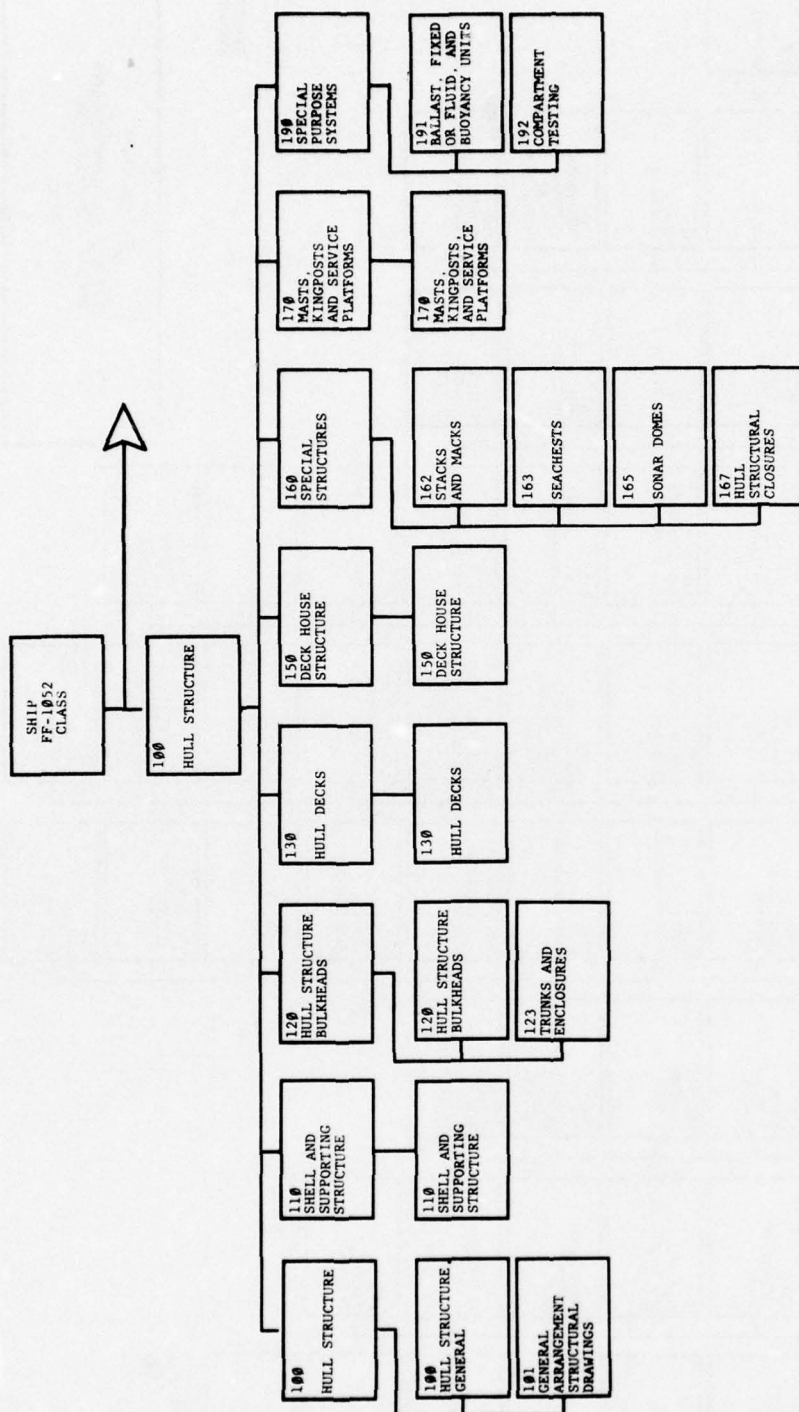
SHIP SYSTEMS DEFINITION AND INDEX  
FOR FF-1052 CLASS SHIPS

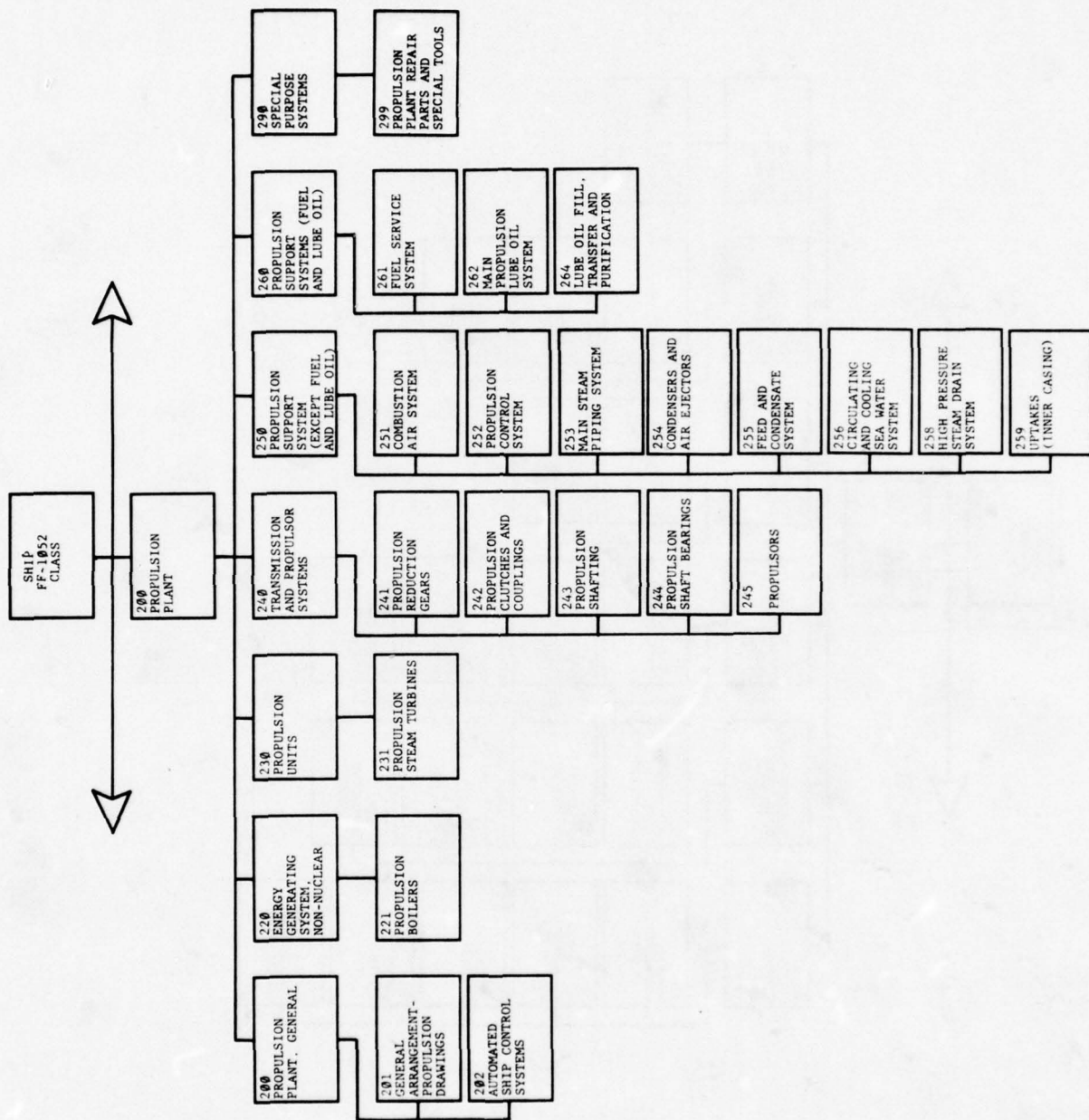


FF-1052 CLASS  
PREPARED 7-22-77

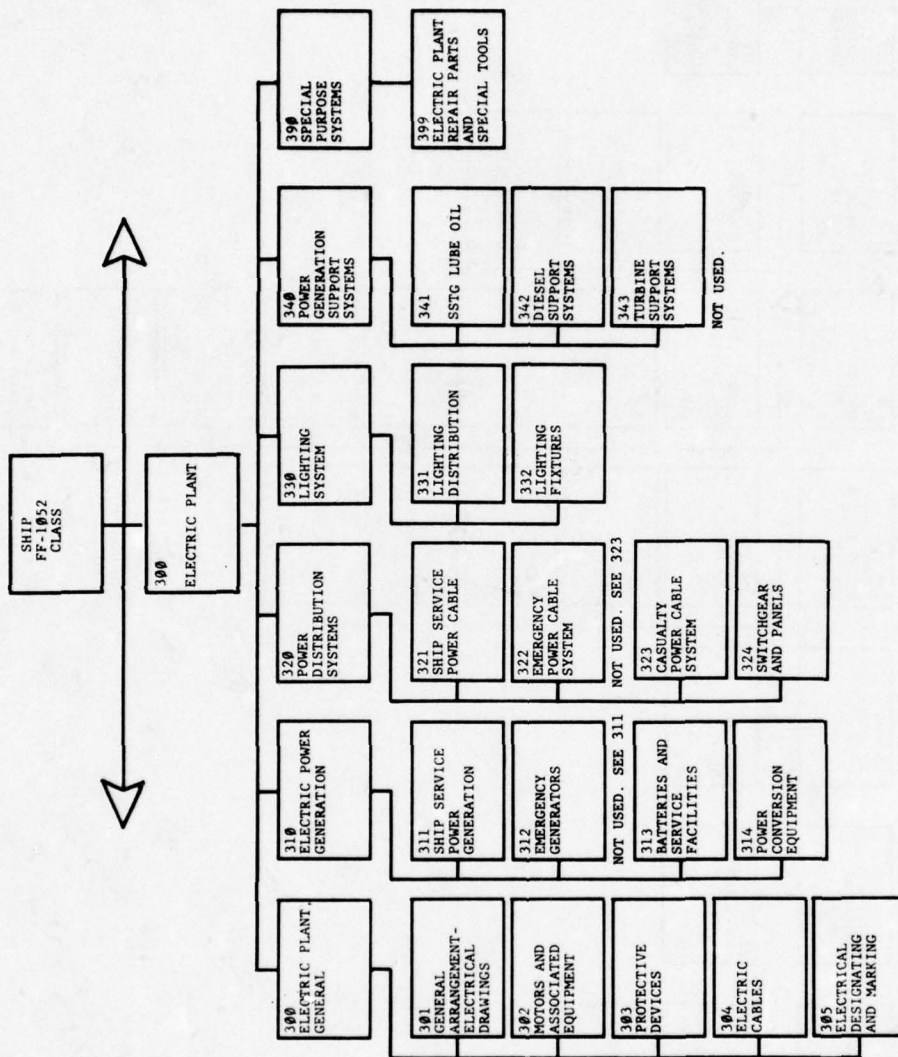
FF-1052 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SNES SHIP SYSTEM DIAGRAM  
INDEX



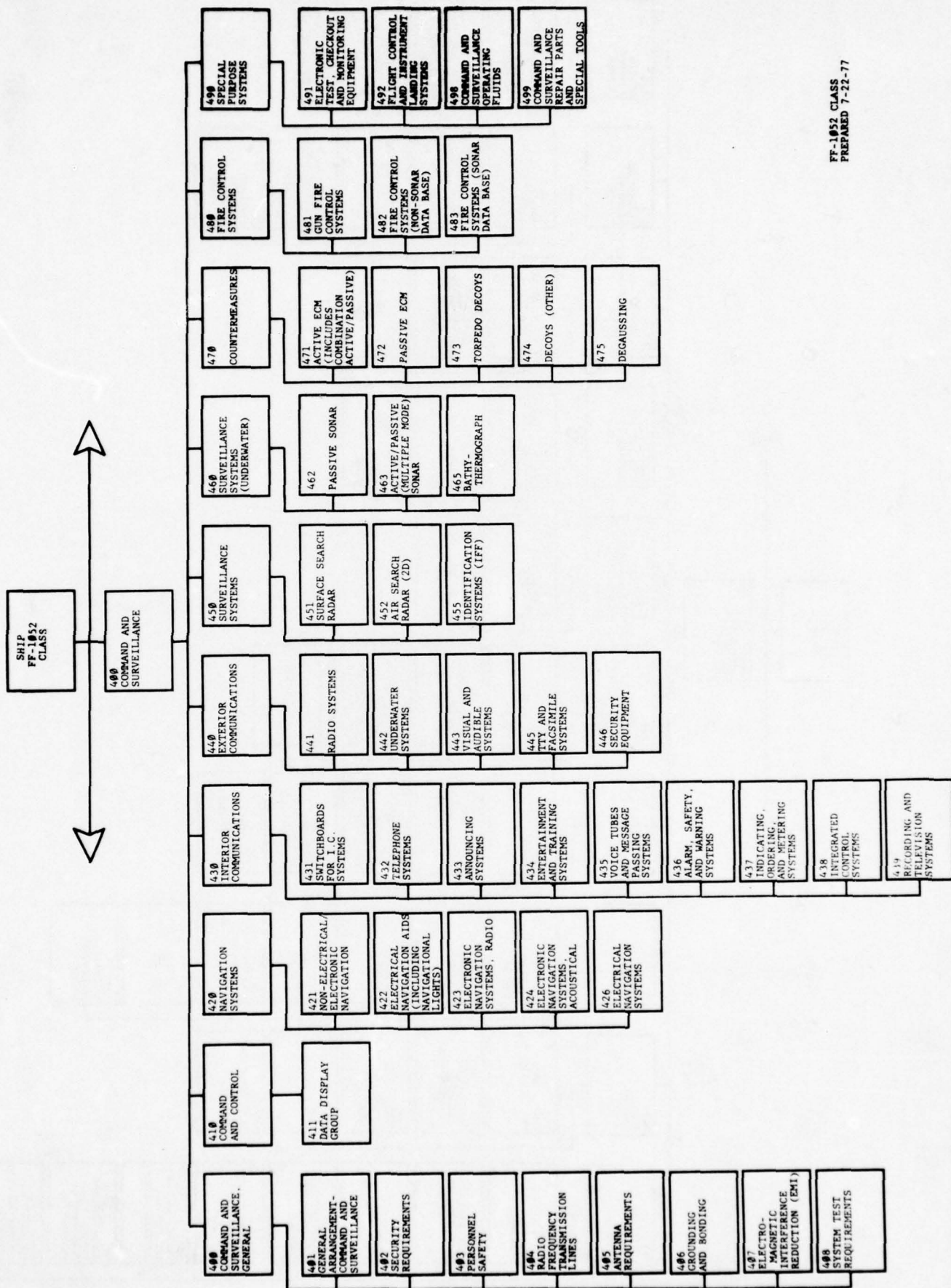




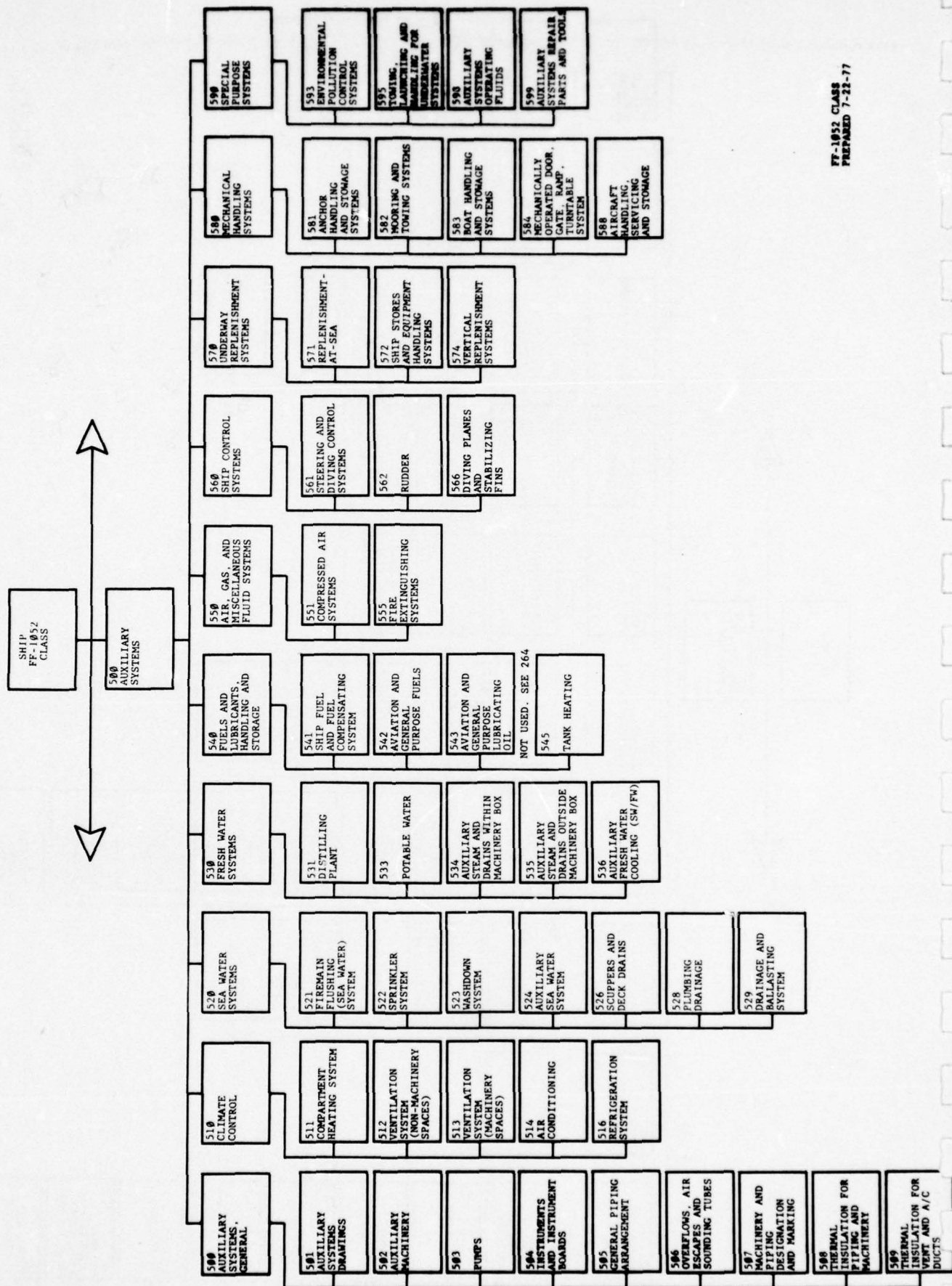
FF-1052 CLASS  
PREPARED 7-22-77



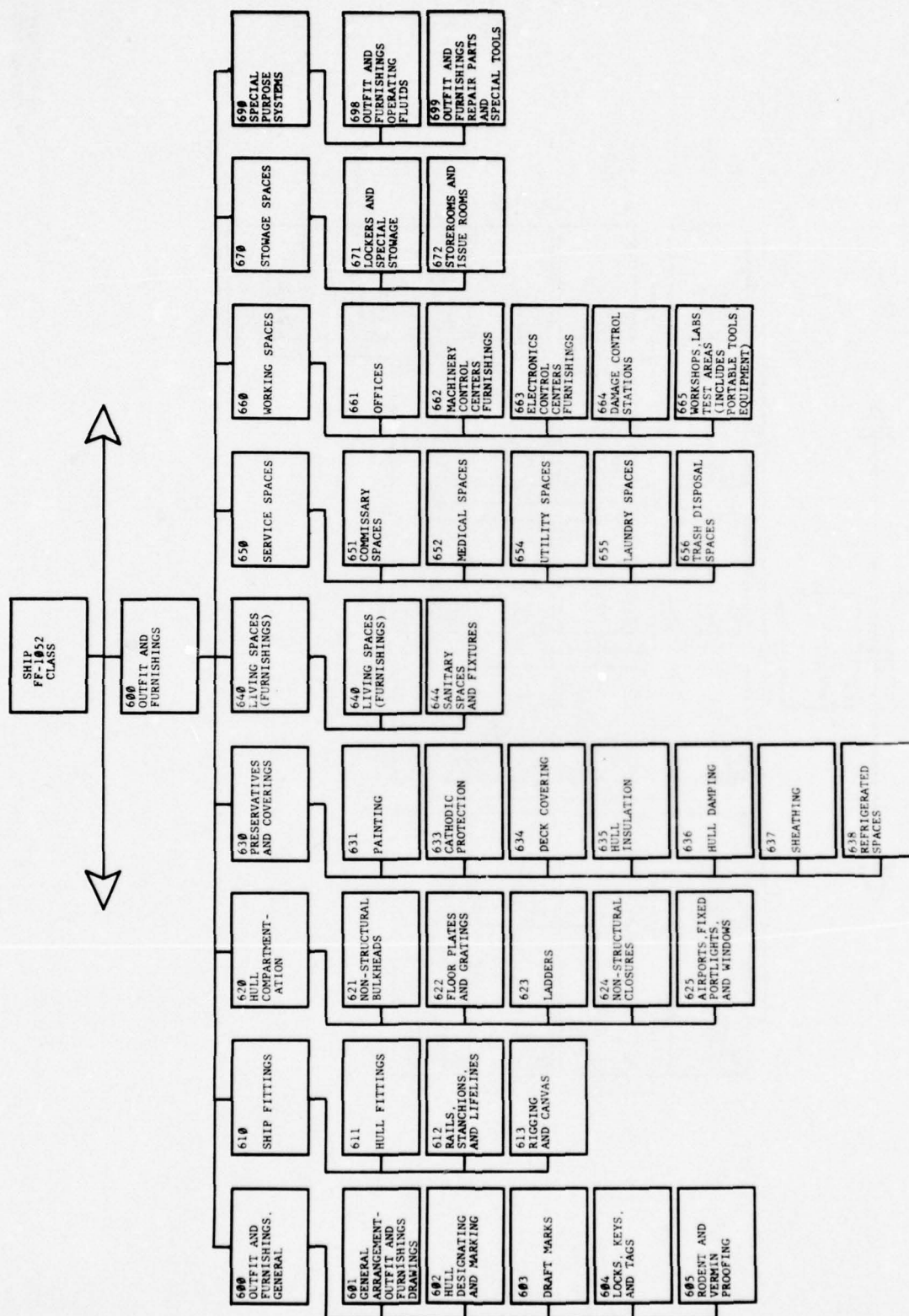




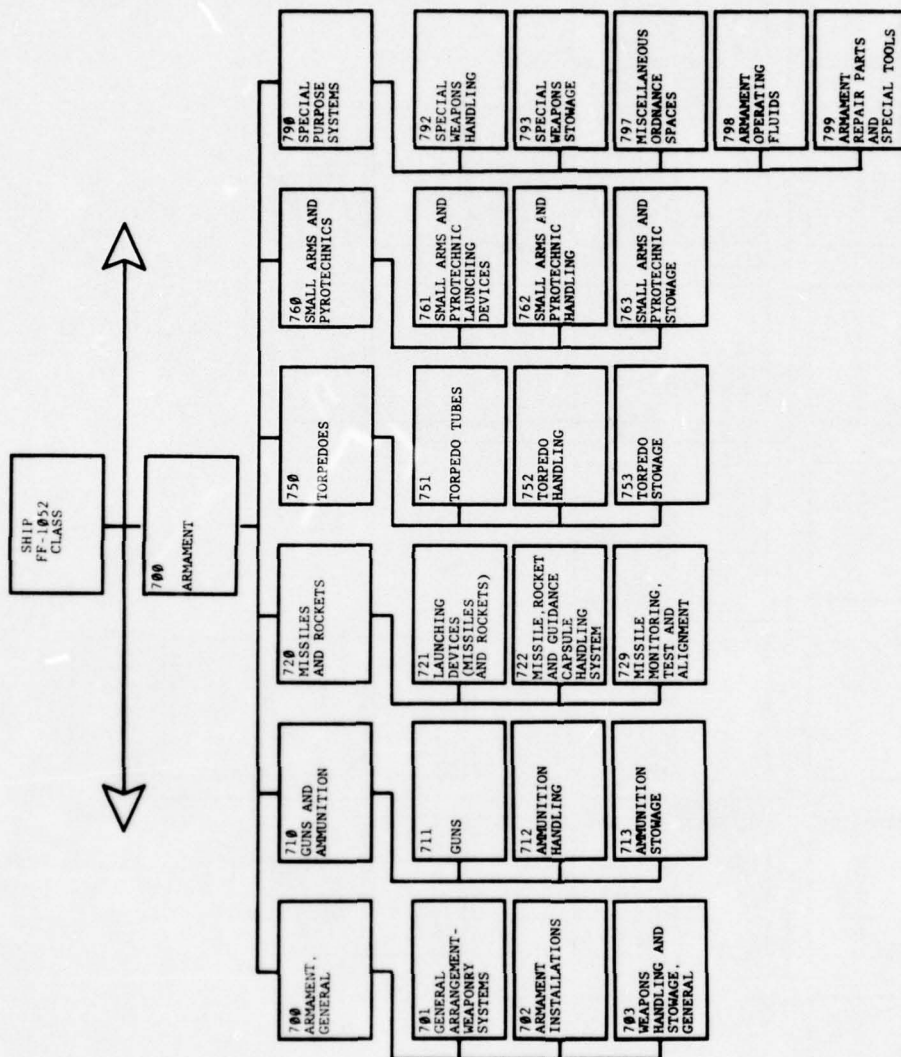
FF-1052 CLASS  
PREPARED 7-22-77



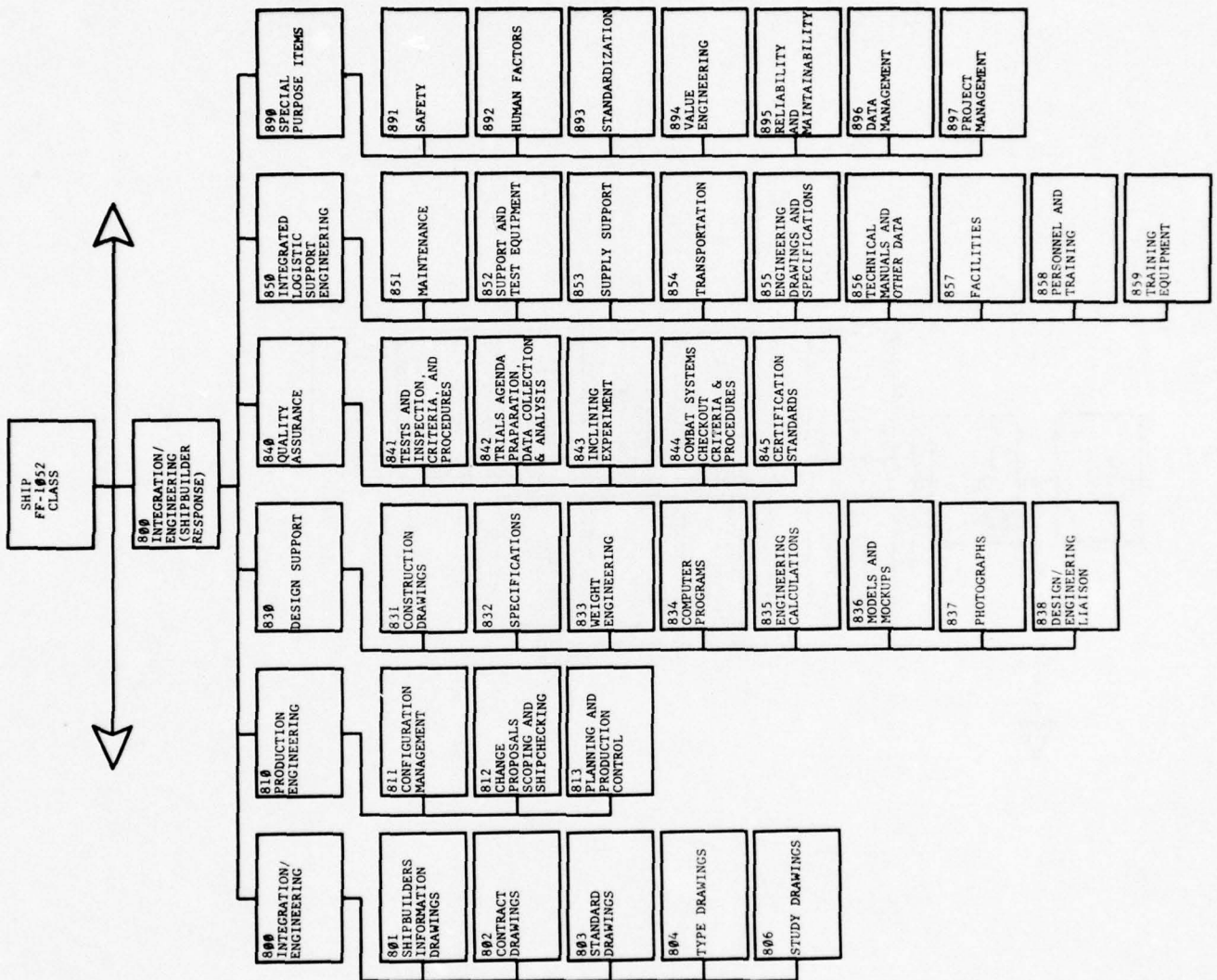




FF-1052 CLASS  
PREPARED 7-22-77

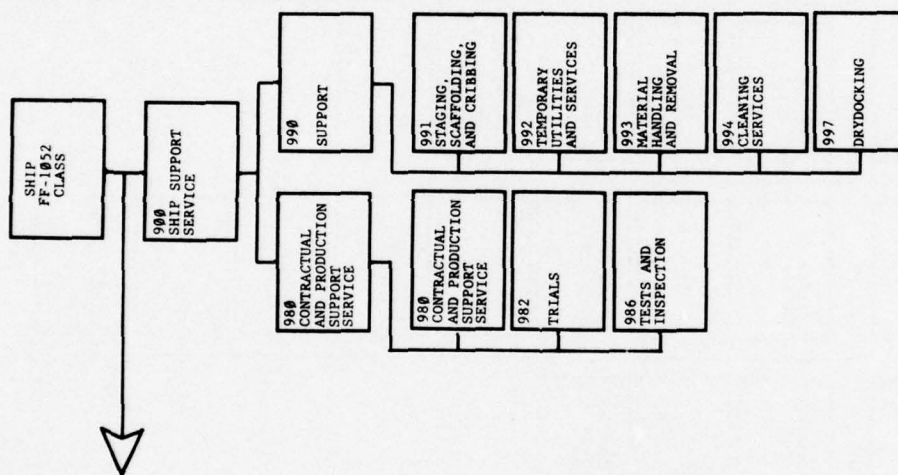


FF-1052 CLASS  
PREPARED 7-22-77






























FF-1052 CLASS  
PREPARED 7-22-77







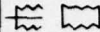

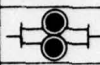











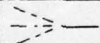











FF-1452 CLASS  
PREPARED 7-22-77

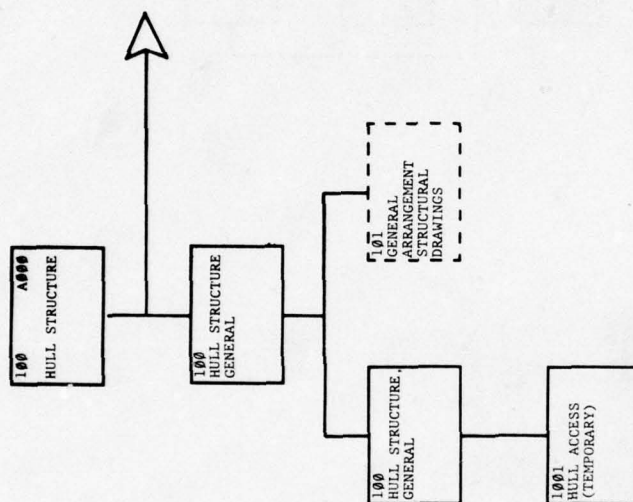
LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	GLOBE VALVE
	GLOBE VALVE, LOCKED OPEN
	GLOBE VALVE, LOCKED CLOSED
	GLOBE VALVE, MANUALLY OPERATED IN PLACE OR PNEUMATICALLY FROM MAIN DECK
	AIR MOTOR OPERATED VALVE
	GLOBE VALVE, WITH MANUAL GEAR OPERATED IN PLACE AND ADJACENT SPACE
	GLOBE VALVE, ANGLE
	GLOBE VALVE, REMOTE OPERATED
	GLOBE STOP CHECK VALVE
	GATE VALVE
	BUTTERFLY VALVE
	SWING CHECK VALVE
	LIFT CHECK VALVE
	NEEDLE VALVE
	STOP COCK PLUG OR CYLINDER VALVE 3 WAY, 2 PORT
	CONTROLLED VALVE, BOILER FEED
	PRESSURE REDUCING OR PRESSURE REGULATING INCREASED ACTUATING PRESSURE CLOSES
	PRESSURE REDUCING OR PRESSURE REGULATING DECREASED ACTUATING PRESSURE CLOSES
	PRESSURE REGULATING VALVE AIR PILOT OPERATED
	PUMP GOVERNOR
	THERMOSTATICALLY CONTROLLED VALVE
	DUMP VALVE
	PILOT VALVE
	FLOAT OPERATED VALVE
	ANGLE LIFT CHECK VALVE
	CONTROL VALVE
	HOSE CONNECTION AND GLOBE VALVE

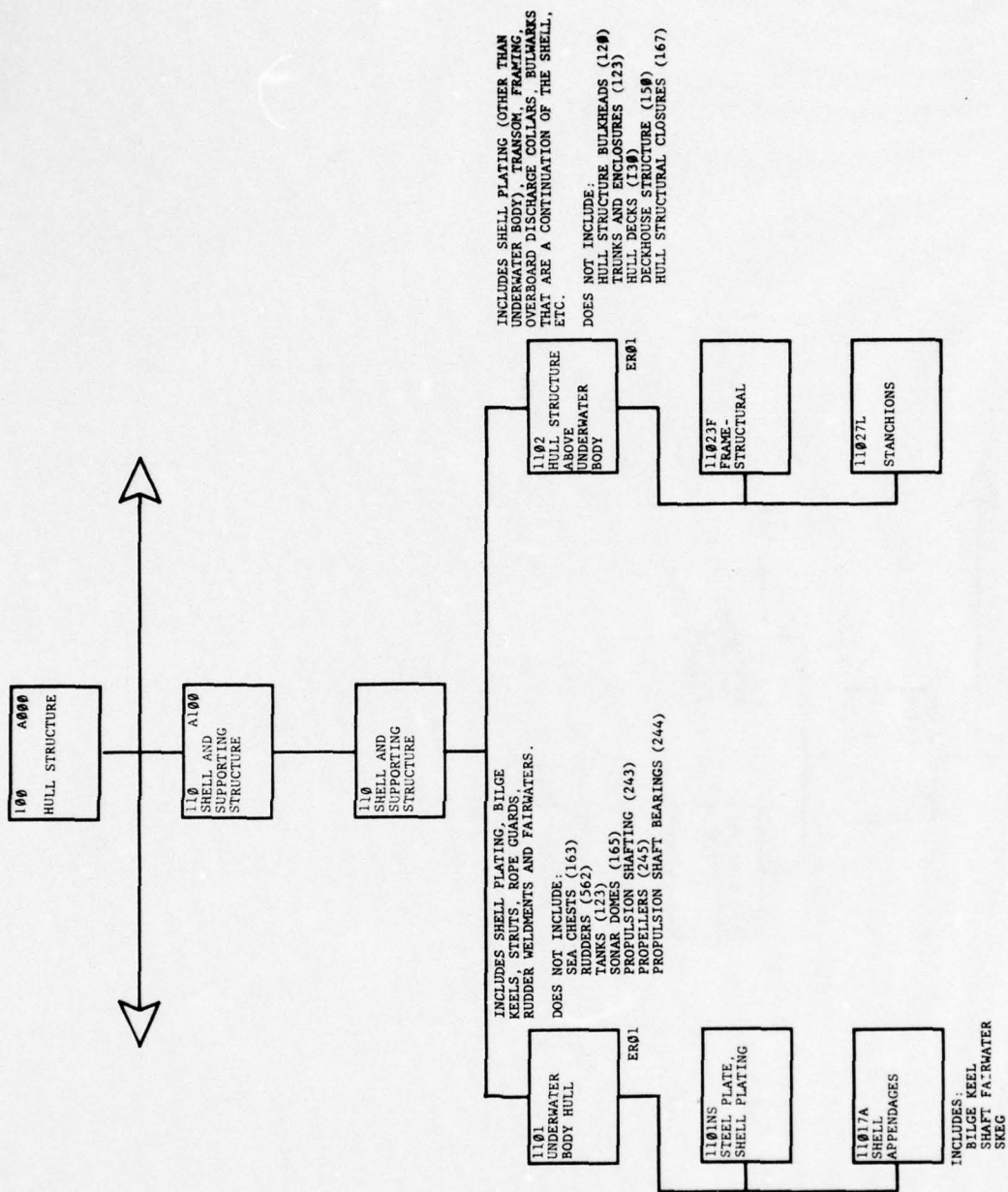
NOTE: VALVES OTHER THAN THE GLOBE VALVE MAY USE THE MODIFIERS SHOWN.  
IN ADDITION COMBINATIONS OF VALVE MODIFIERS MAY BE USED.

LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	VENT
	BOILER DRUM SAFETY VALVE
	ANGLE RELIEF VALVE (ENCLOSED SPRING)
	COMBINED EXHAUST AND RELIEF VALVE
	PRESSURE GAUGE
	VACUUM - PRESSURE GAUGE
	DUPLEX PRESSURE GAUGE
	ABSOLUTE PRESSURE GAUGE
	DISTANT READING PRESSURE GAUGE
	DISTANT READING THERMOMETER
	SIGHT READING THERMOMETER
	THERMO ELEMENT
	METER, SIGHT FLOW
	PRESSURE BREAKDOWN ORIFICE
	OPEN FUNNEL
	SPECTACLE FLANGE
	DUPLEX STRAINER
	Y STRAINER
	STRAINER
	IMPULSE TRAP & STRAINER
	SALINITY CELL
	ORIFICE PLATE
	MOTOR CONTROLLER
	TEST TEE
	DESUPERHEATER
	MANIFOLD
	EDUCTOR

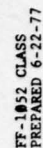


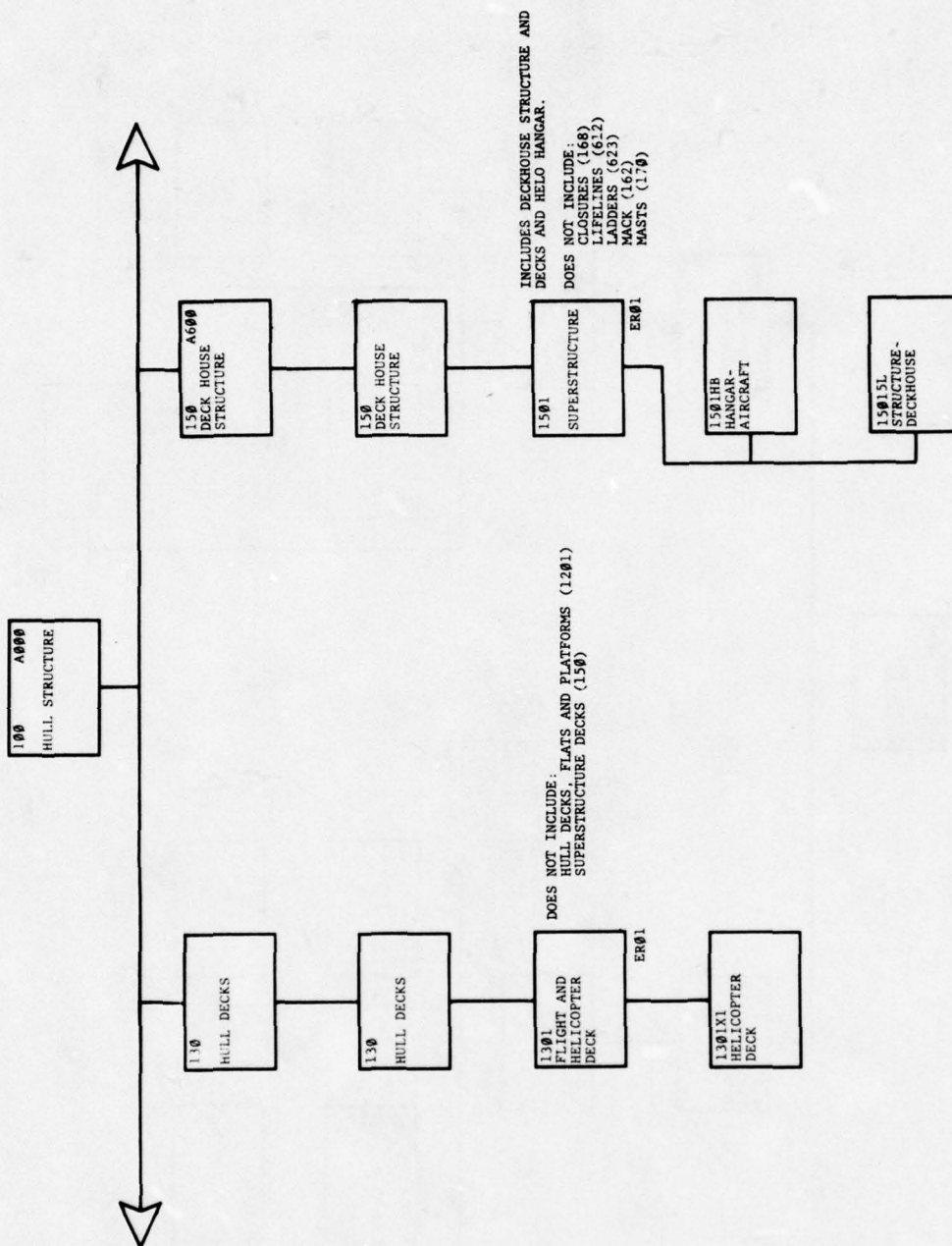
LEGEND OF SYMBOLS	
SYMBOL	DESCRIPTION
	PUSHBUTTON & INDICATOR LIGHT
	PUSHBUTTON
	EXPANSION JOINT
	GAGE GLASS
	DUPLEX (TWIN BASKET) MAGNETIC STRAINER
	THERMOCOUPLE CONNECTION OR THERMOSTAT
	THERMOMETER ANY ANGLE DIAL, BARE BULB TYPE DIRECT READING
	THERMOMETER DISTANT READING BARE BULB TYPE
	CONSTANT FLOW FITTING
	FUNNEL WITH SWING COVER
	CONCENTRIC REDUCER
	REDUCER
	HOSE ADAPTER
	SOUND ISOLATION FITTING
	FLEXIBLE HOSE
	FLOW MEASURING NOZZLE
	SHAFT TURBINE END, COUPLING OIL SPRAY
	ANGLE STOP VALVE
	BALL CHECK STOP VALVE
	PRESSURE VENT
	LOCK SHIELD VALVE, HIGH LIFT
	BOTTOM BLOWDOWN VALVE, HIGH LIFT
	TOP BLOWDOWN VALVE, HIGH LIFT
	AIR OPERATED VALVE SPRING CLOSING
	AUTOMATIC RECIRCULATING VALVE
	CROSS VALVE
	MOTOR PRESSURE SWITCH
	LIMIT SWITCHES

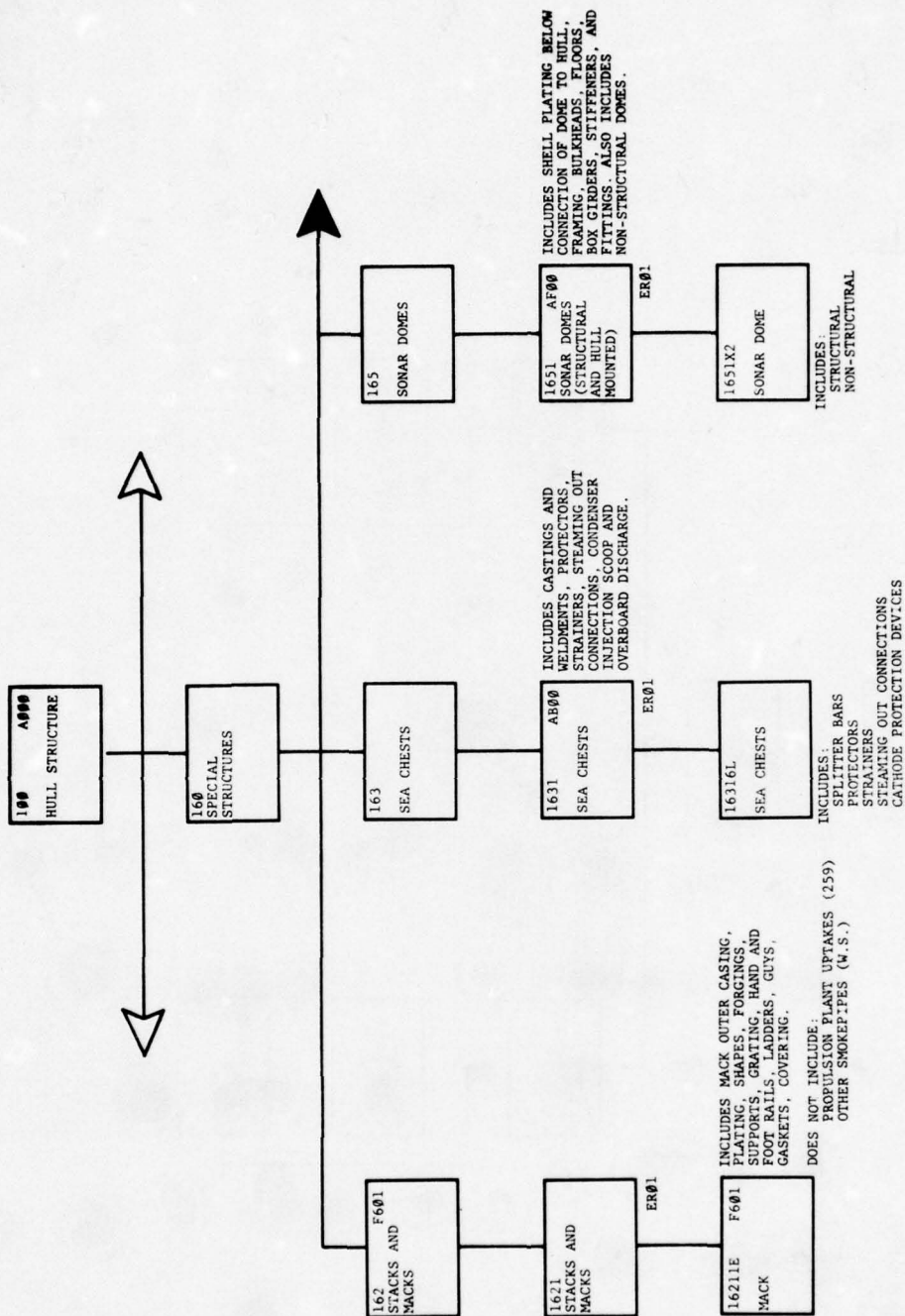




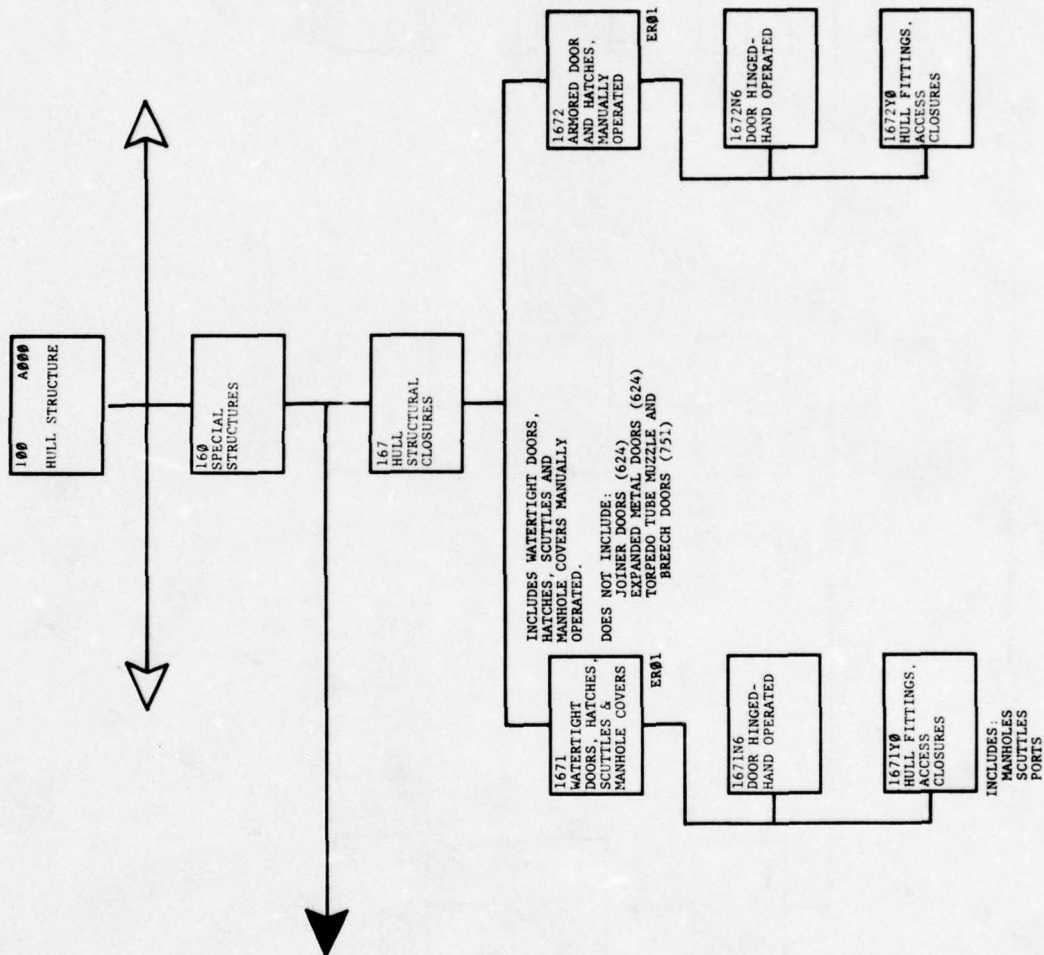


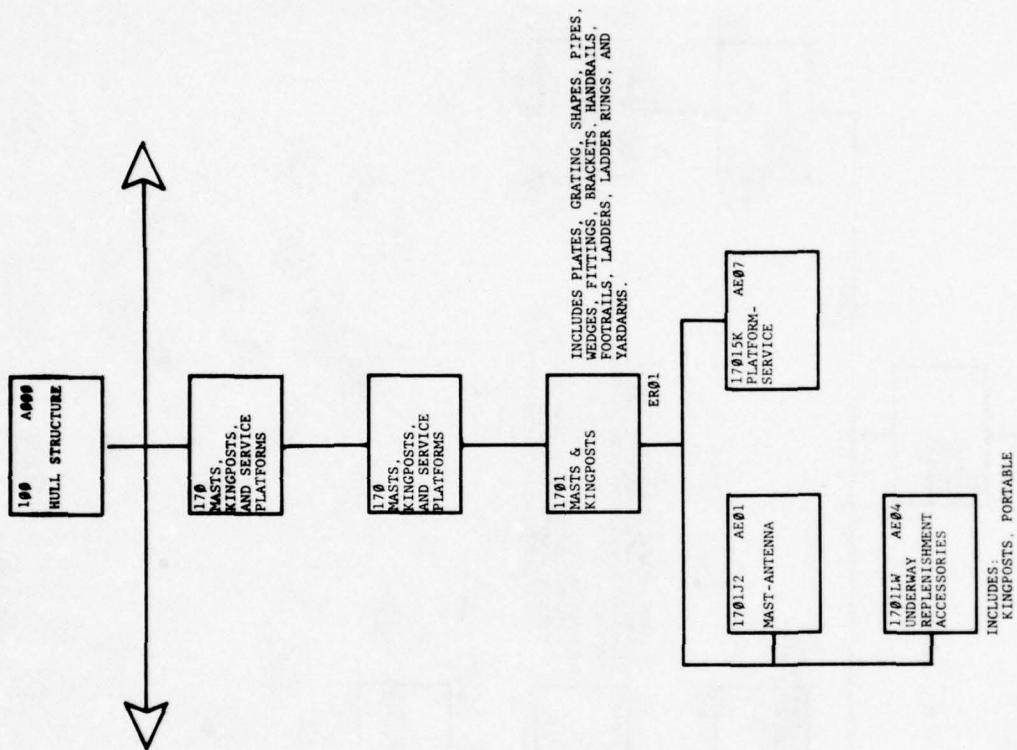


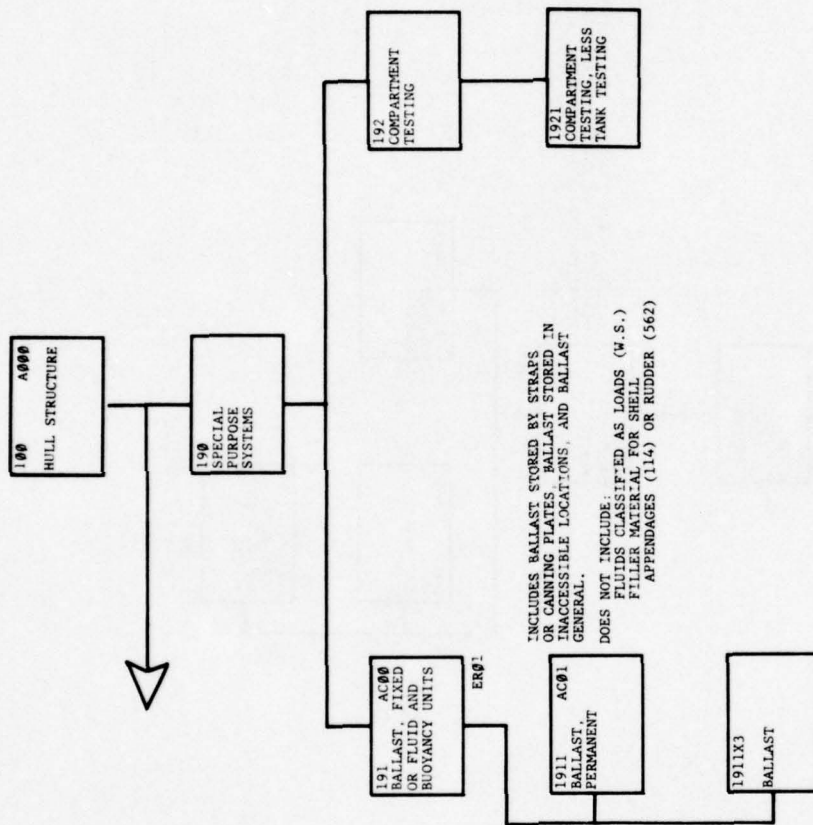




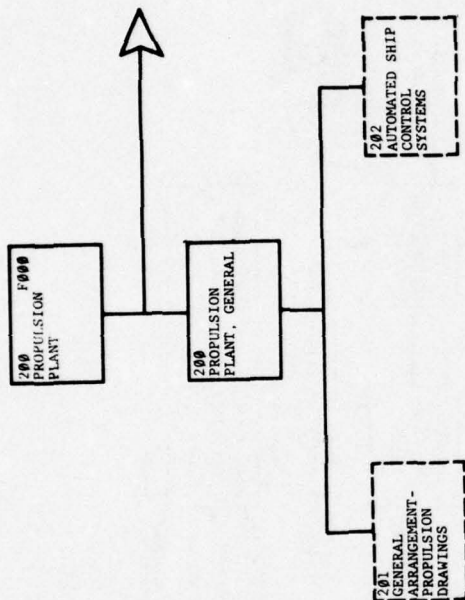




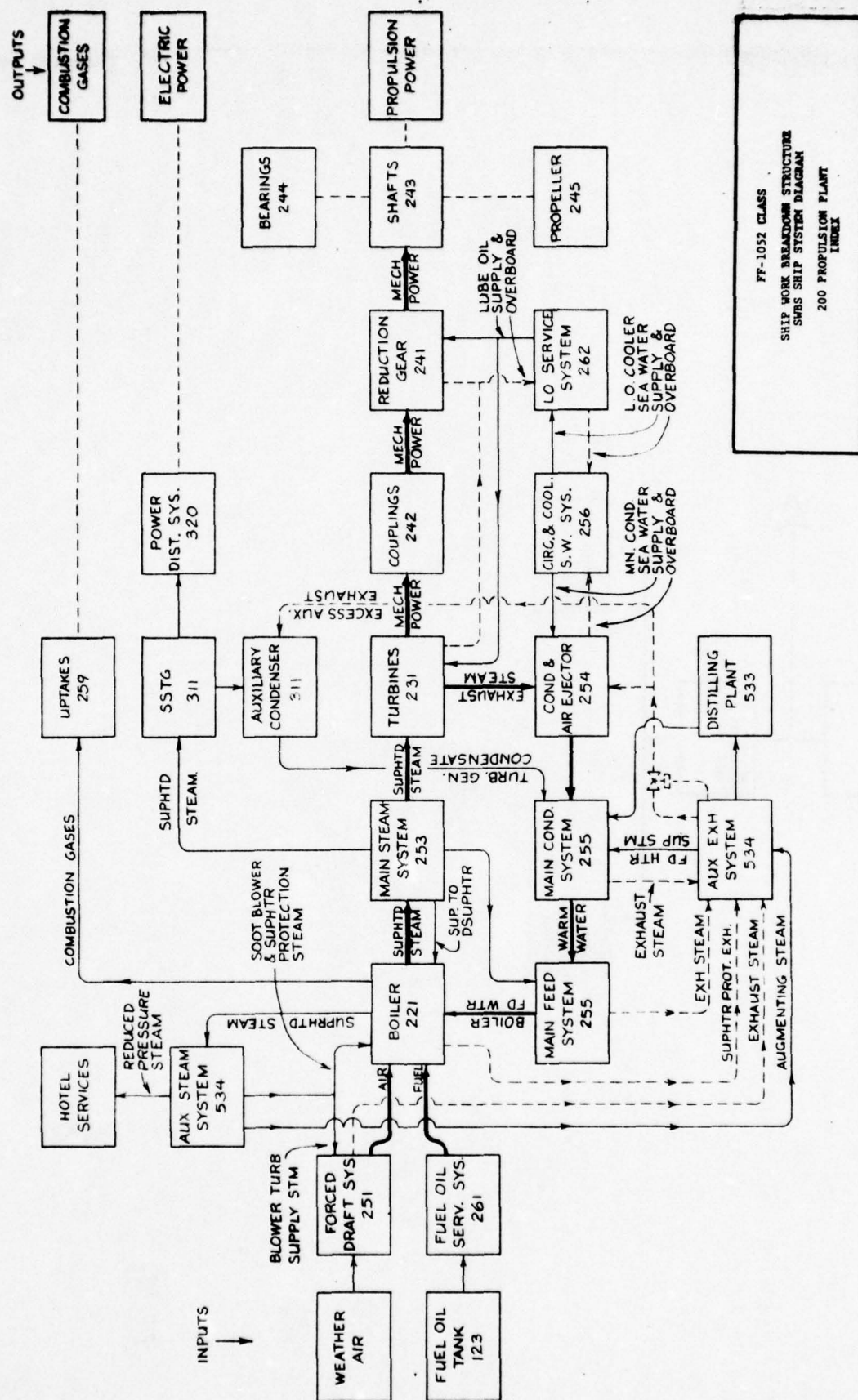






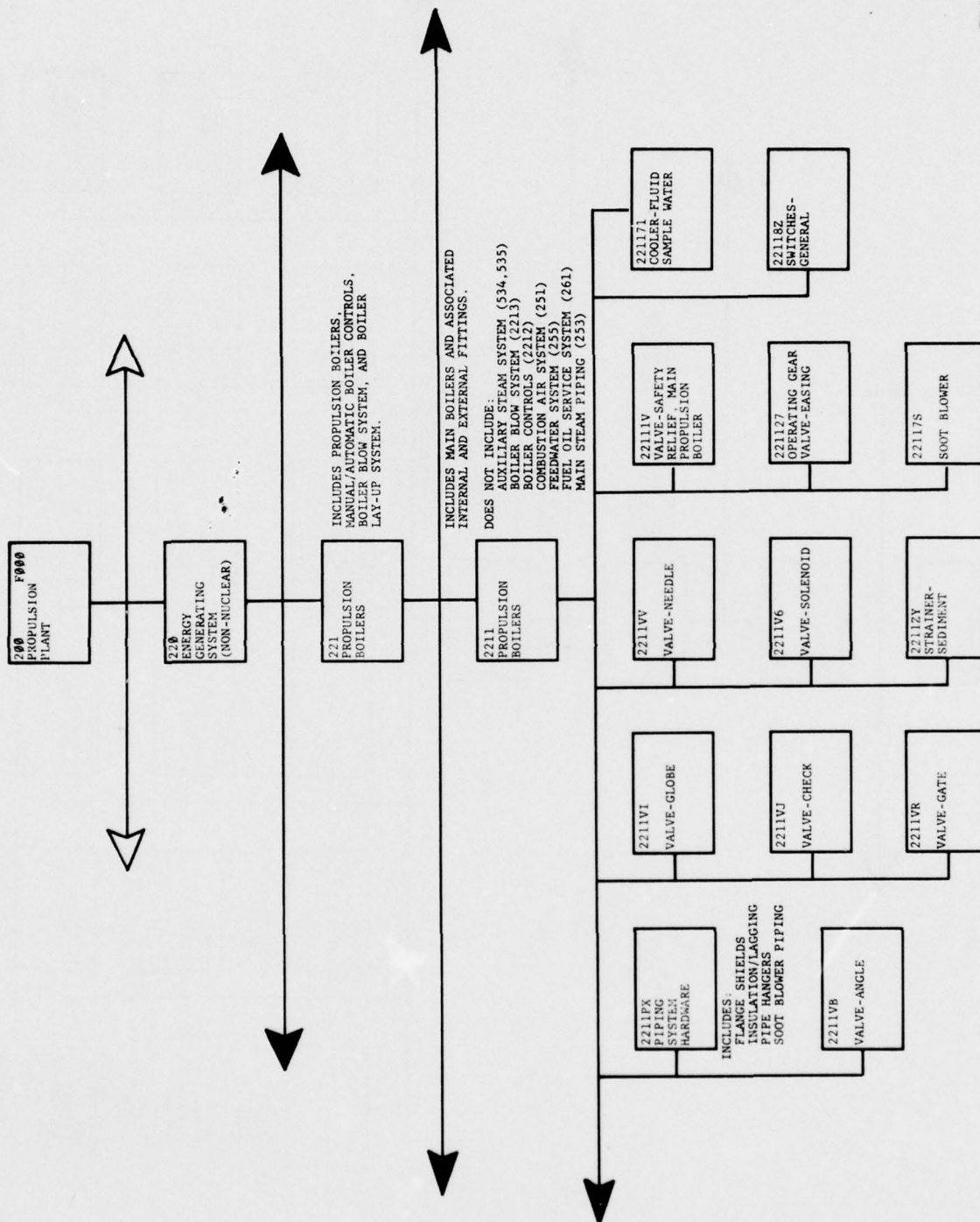


FF-1052 CLASS  
PREPARED 6-22-77

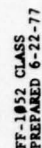




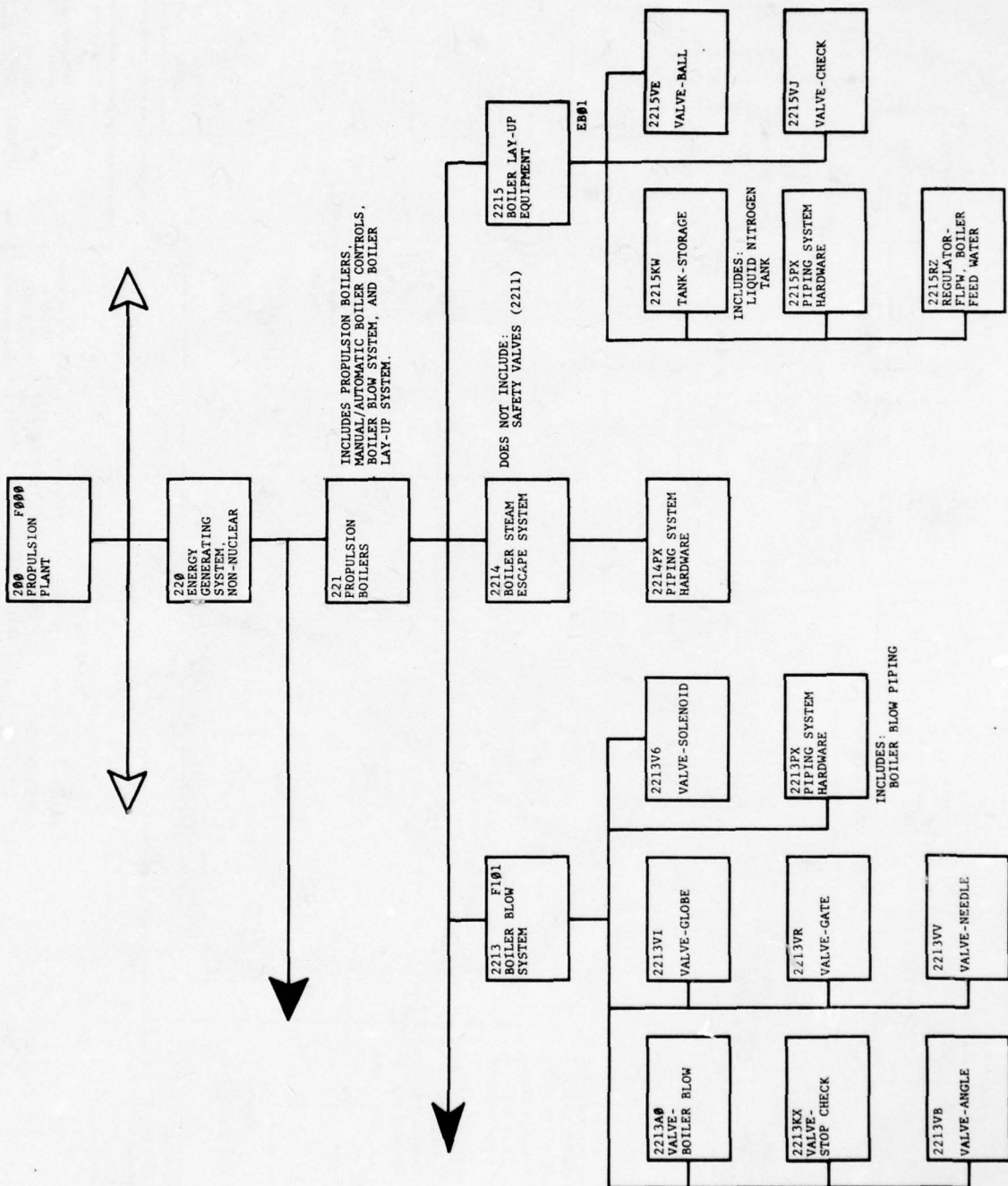


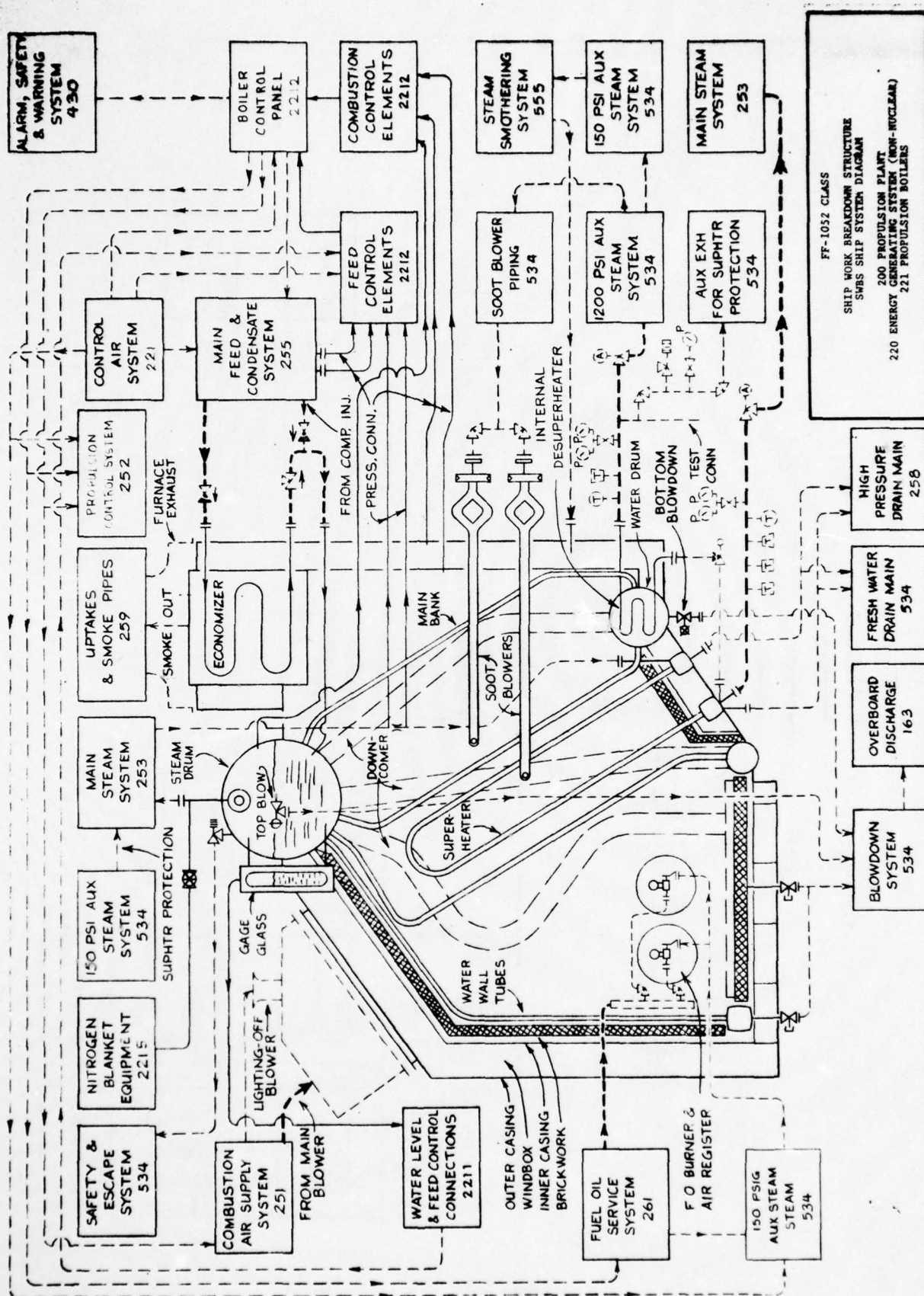


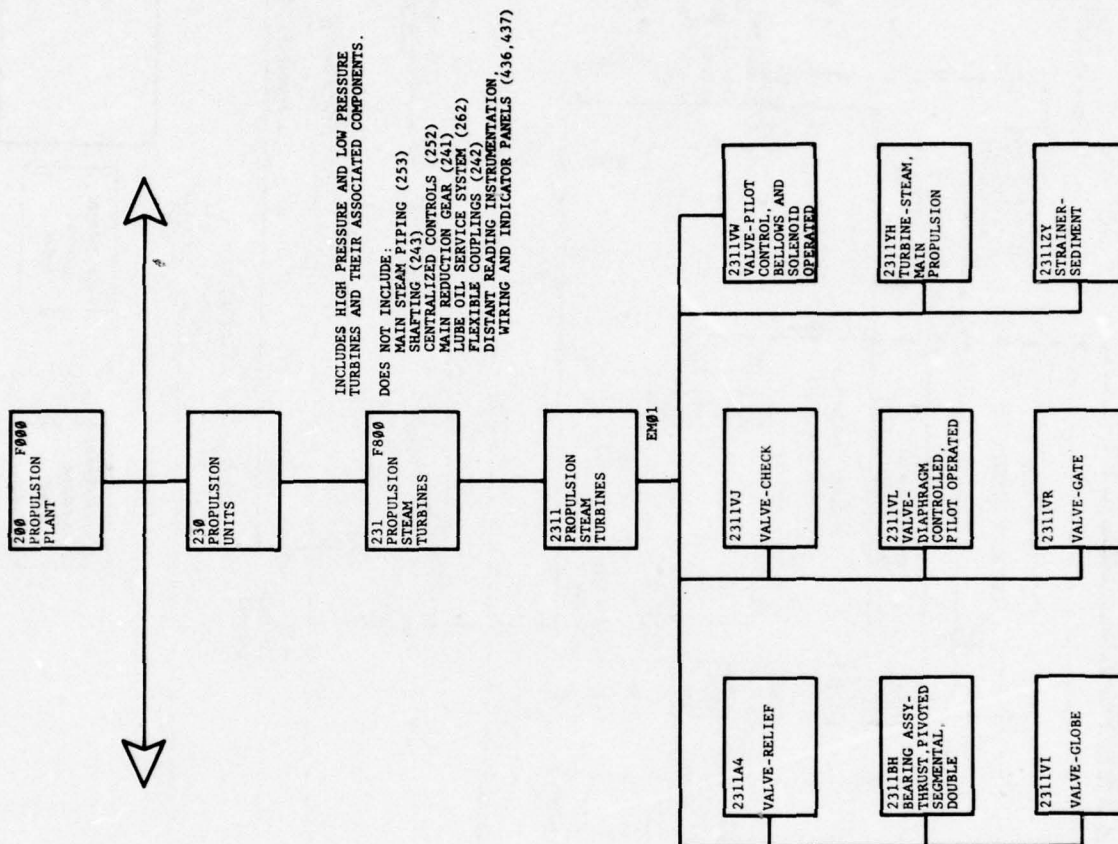




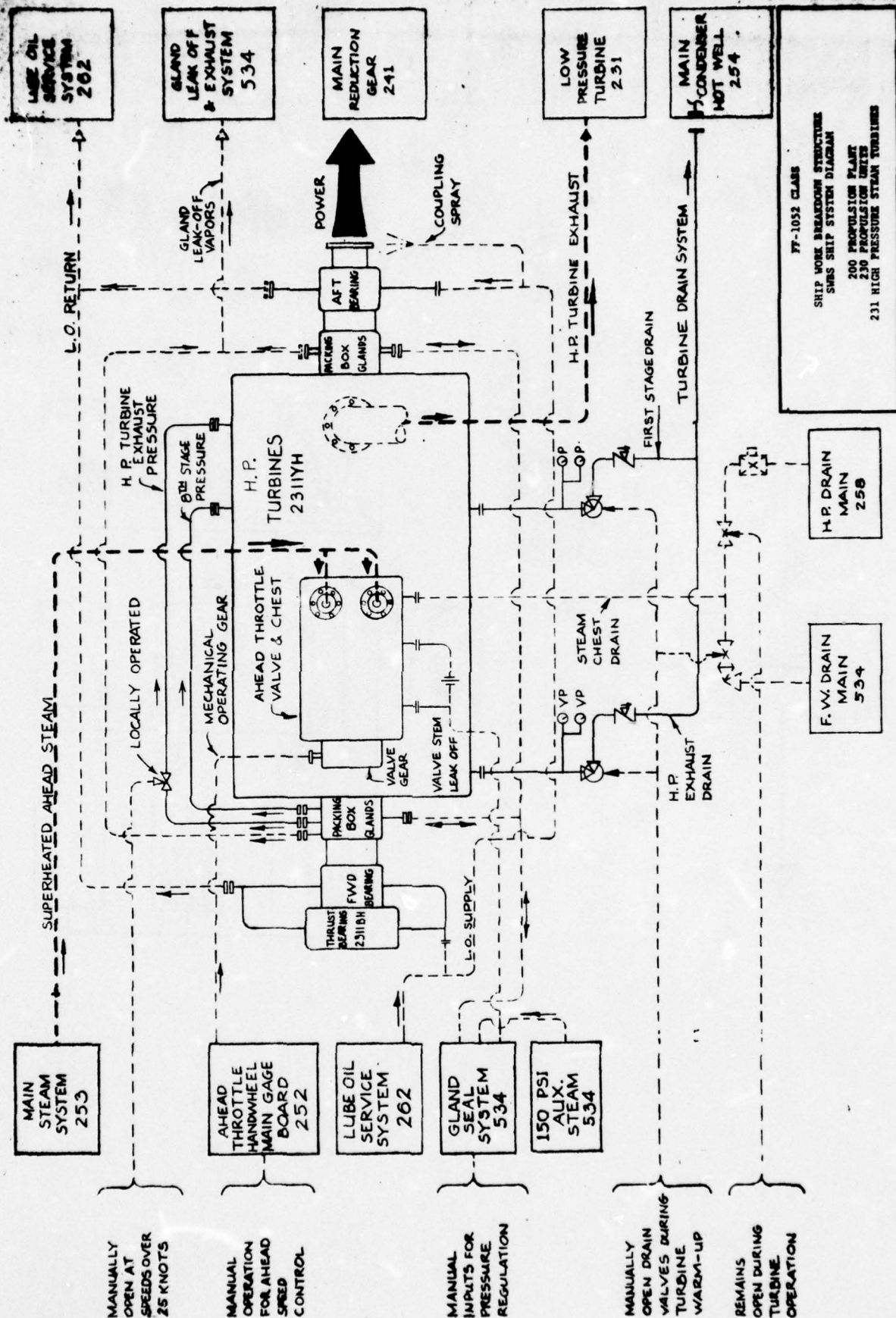


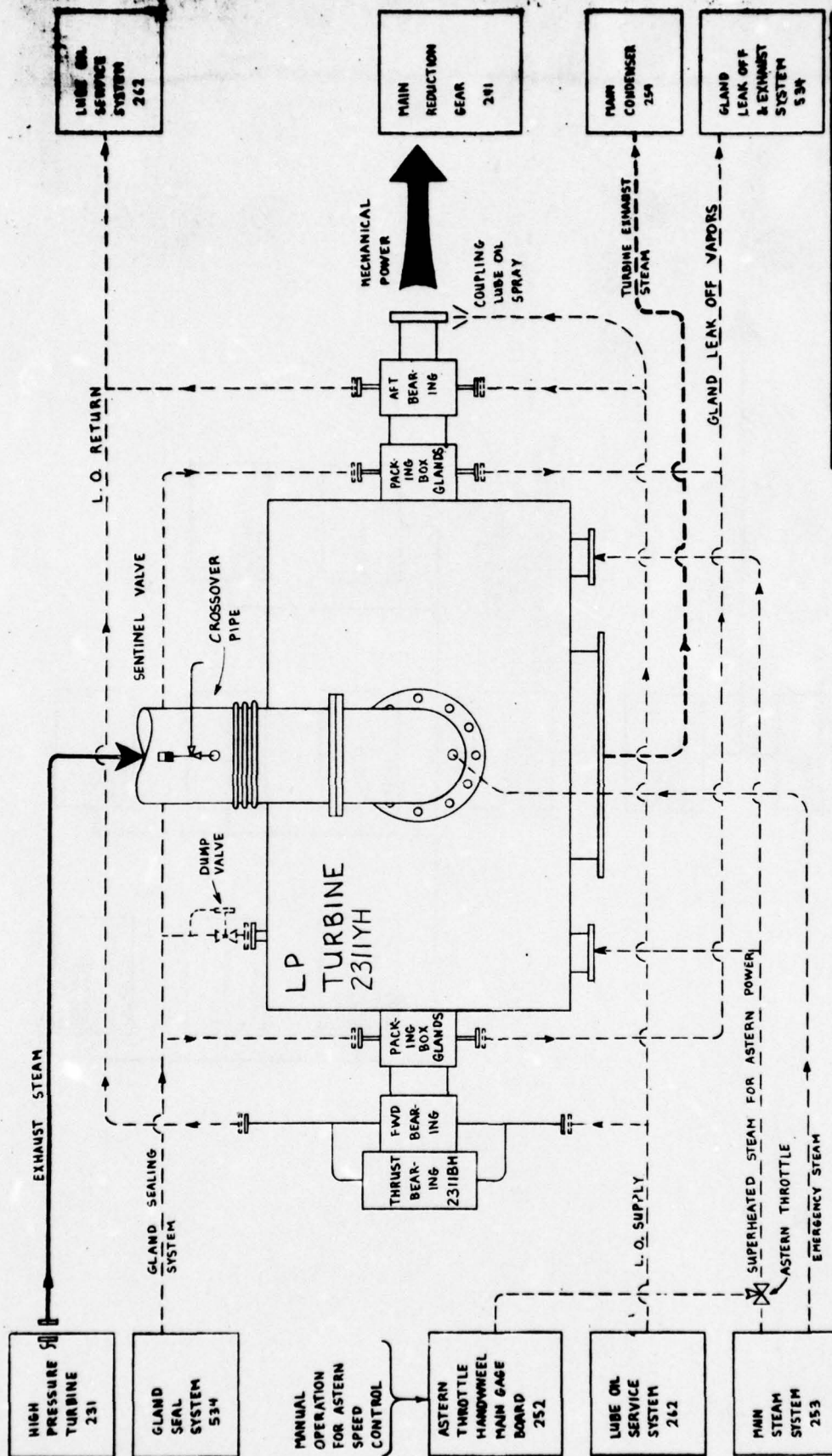








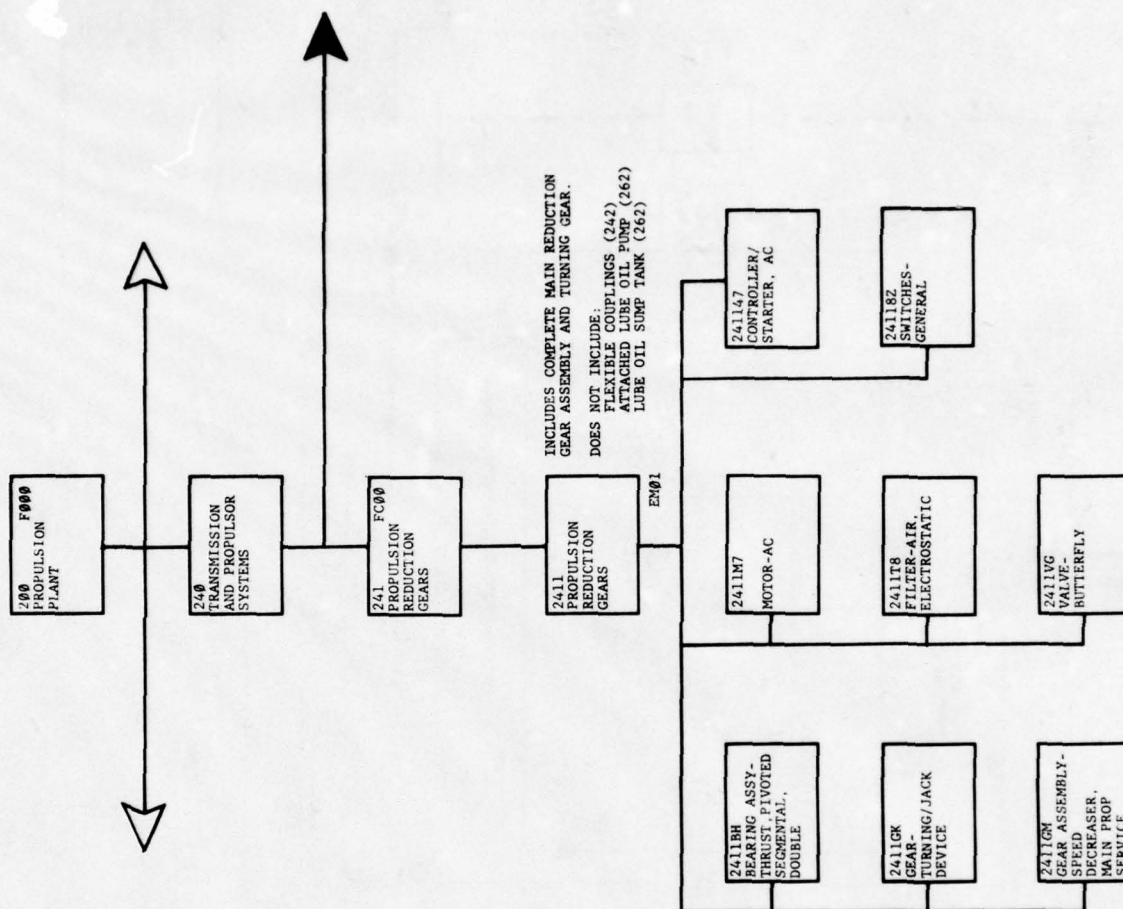




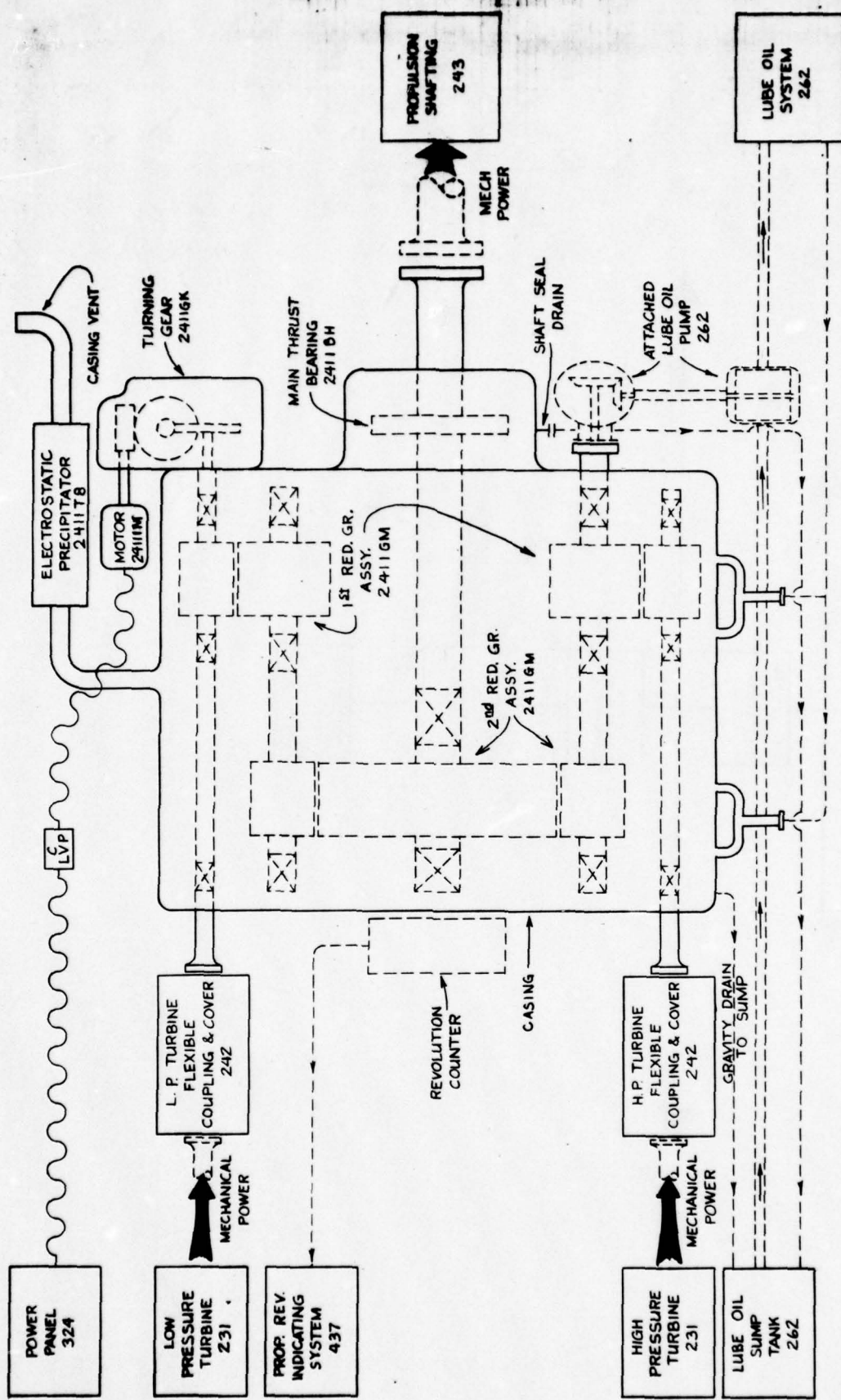
77-1052 CLASS

SHIP WORK BREAKDOWN STRUCTURE  
SUBS SHIP SYSTEM DIAGRAM

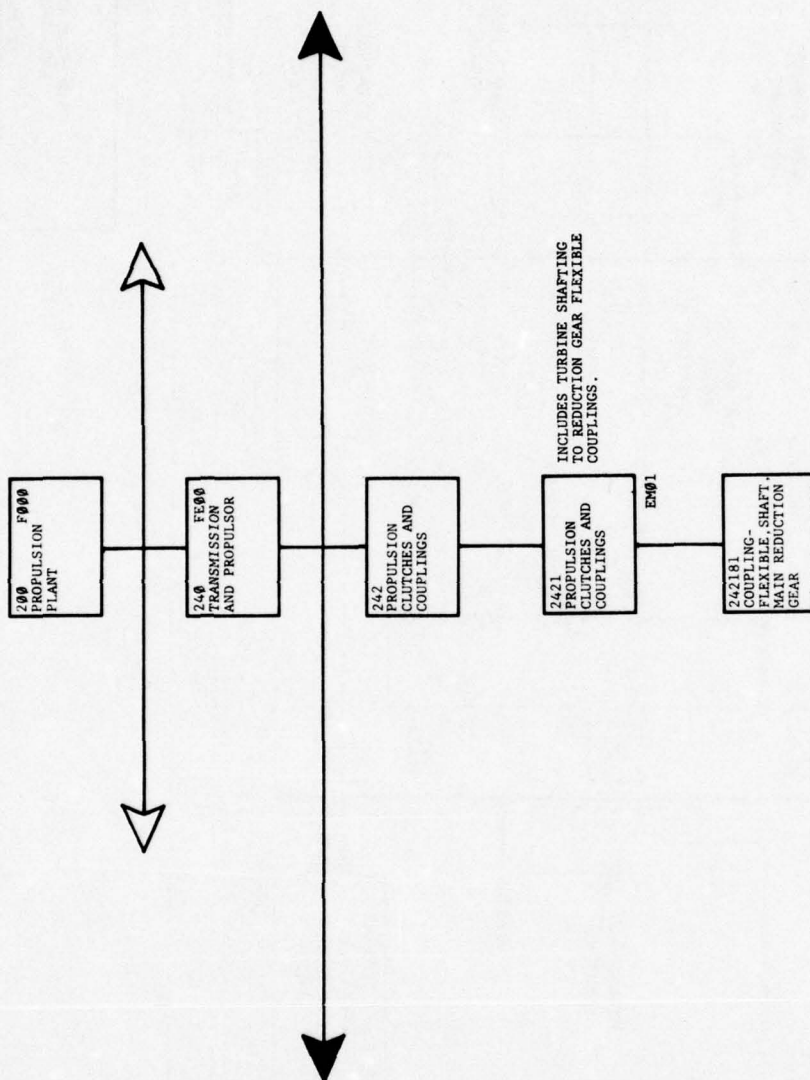
200 PROPUSSION PLANT  
230 PROPUSSION UNITS  
231 LOW PRESSURE STEAM TURBINES

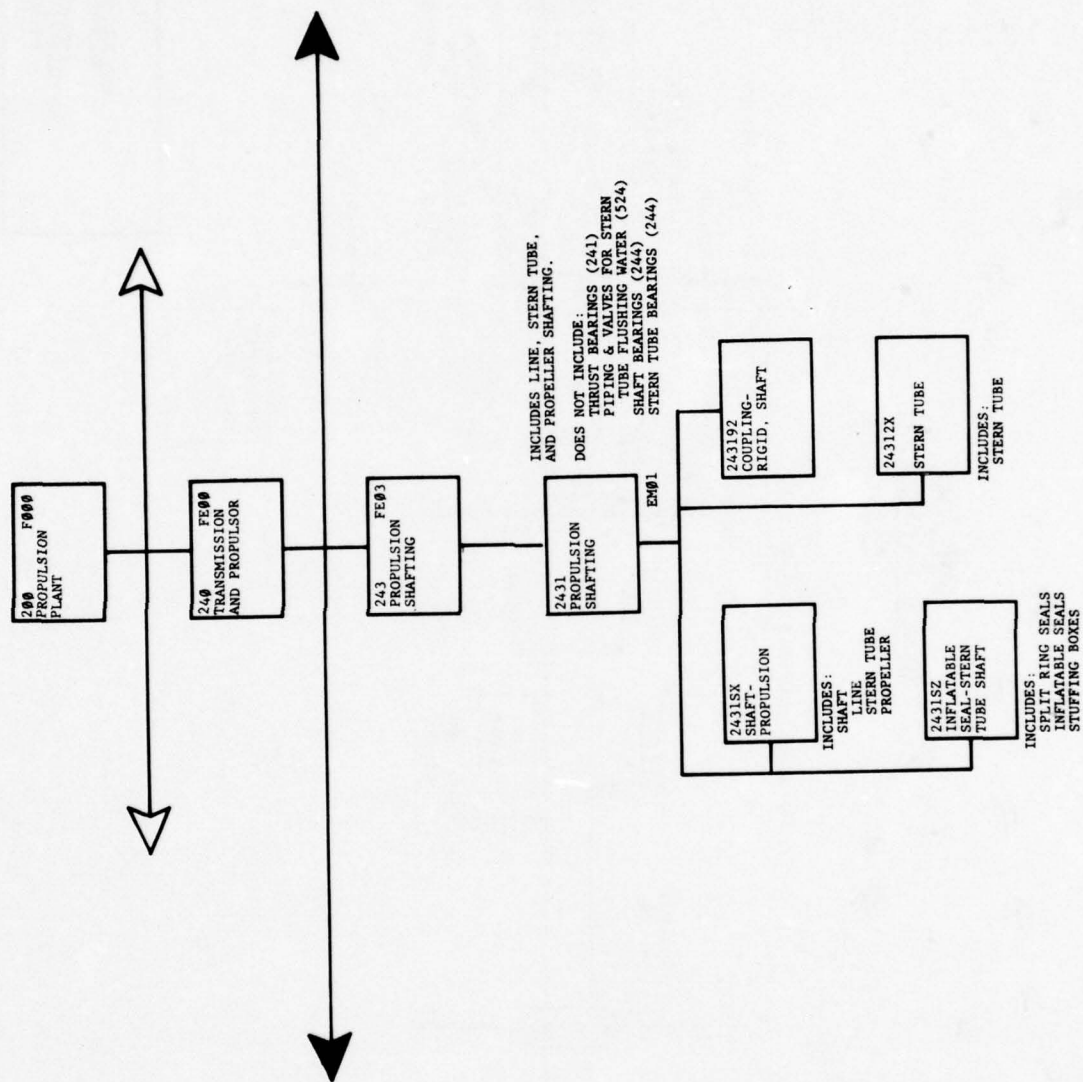






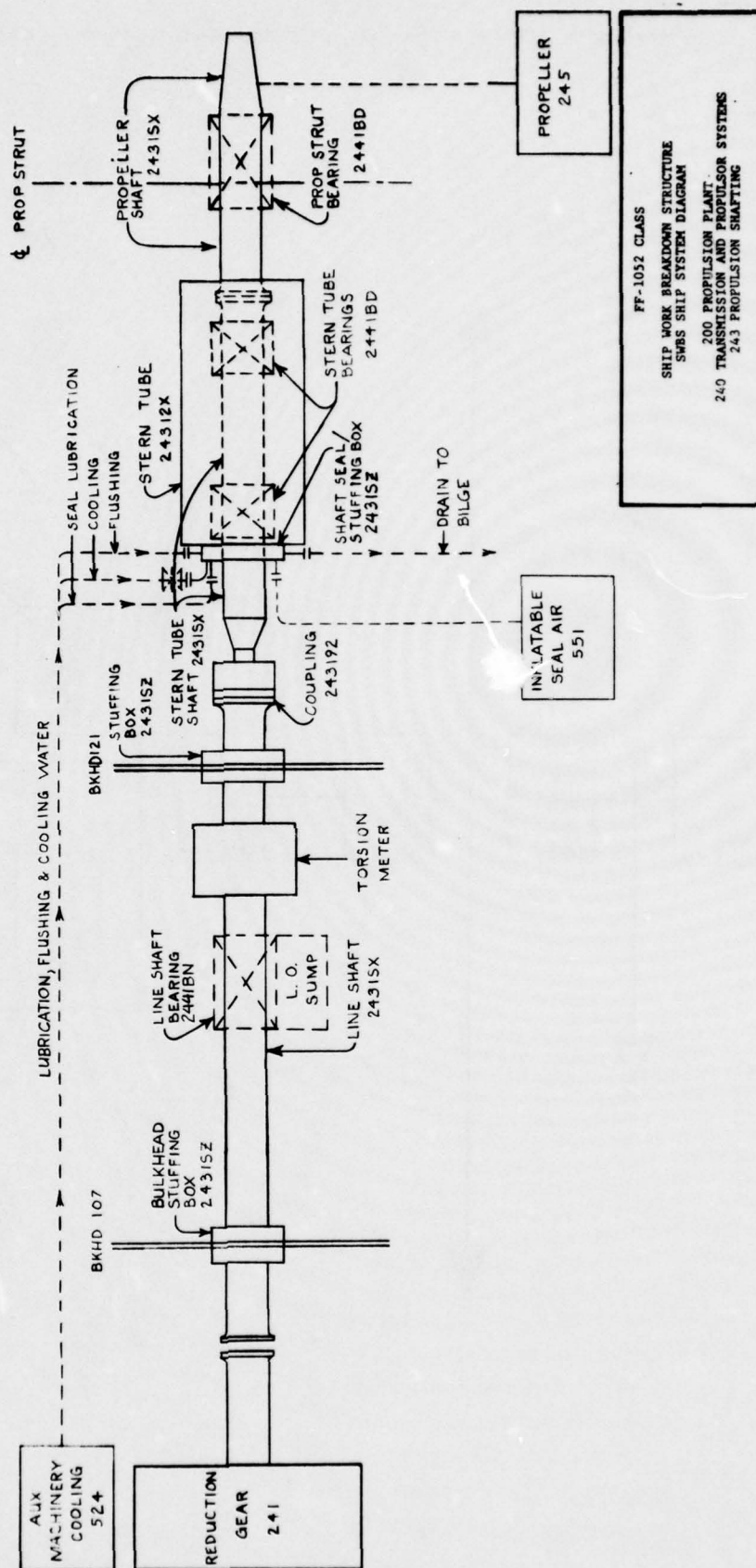
77-1032 CLASS  
 SHIP WORK BREAKDOWN STRUCTURE  
 SWBS SHIP SYSTEM DIAGRAM  
 200 PROPULSION PLANT  
 240 TRANSMISSION AND PROPULSION SYSTEMS  
 241 PROPULSION REDUCTION GEAR



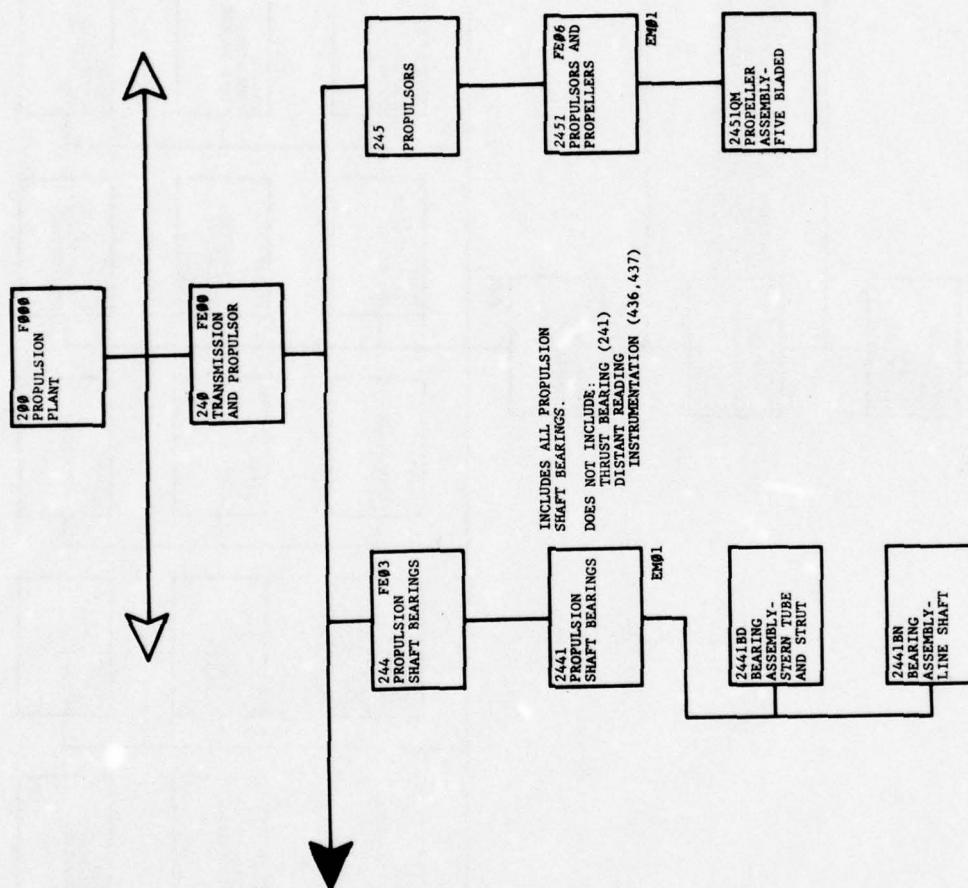


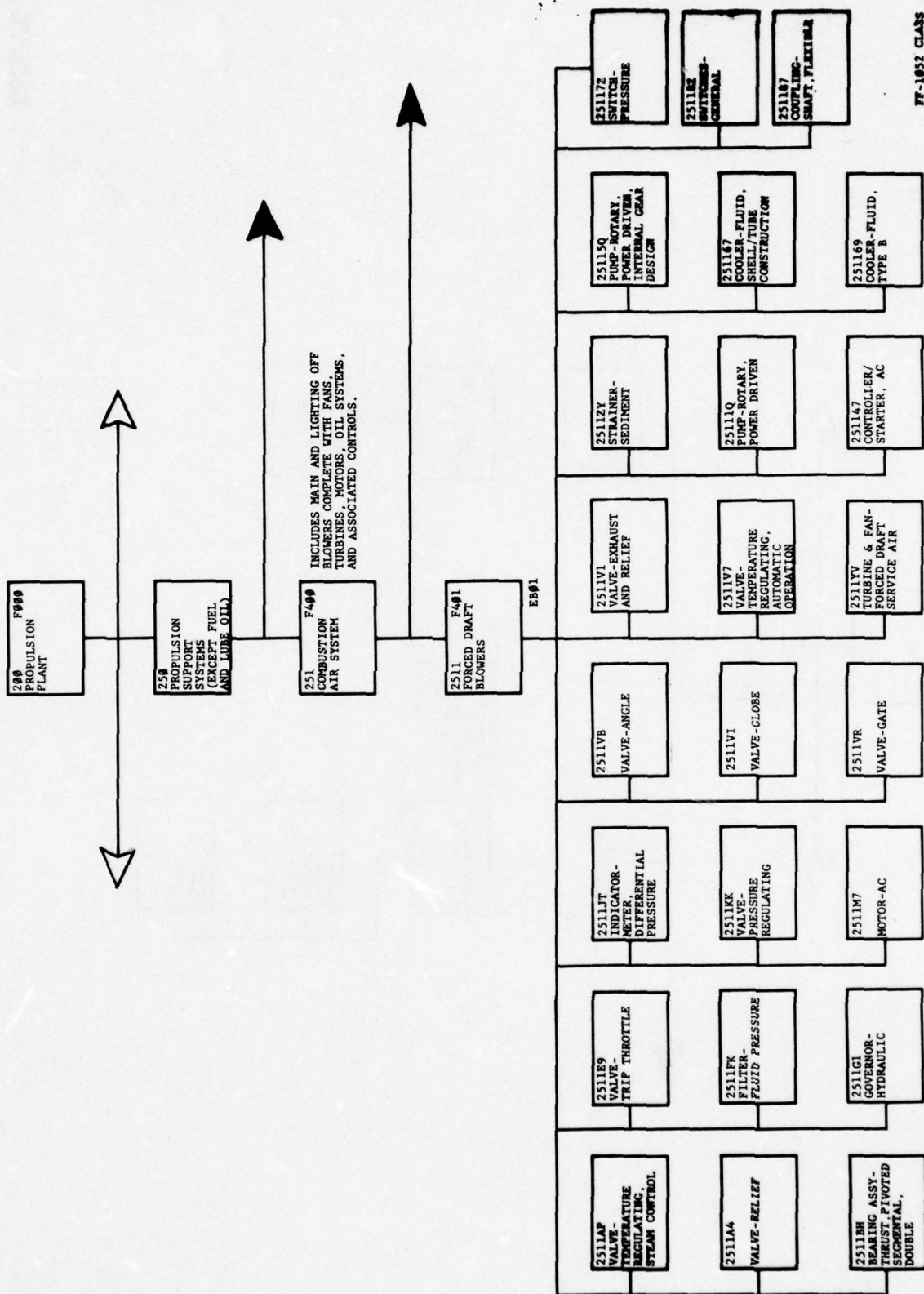


SHAFTING  
MAIN PROPULSION  
243



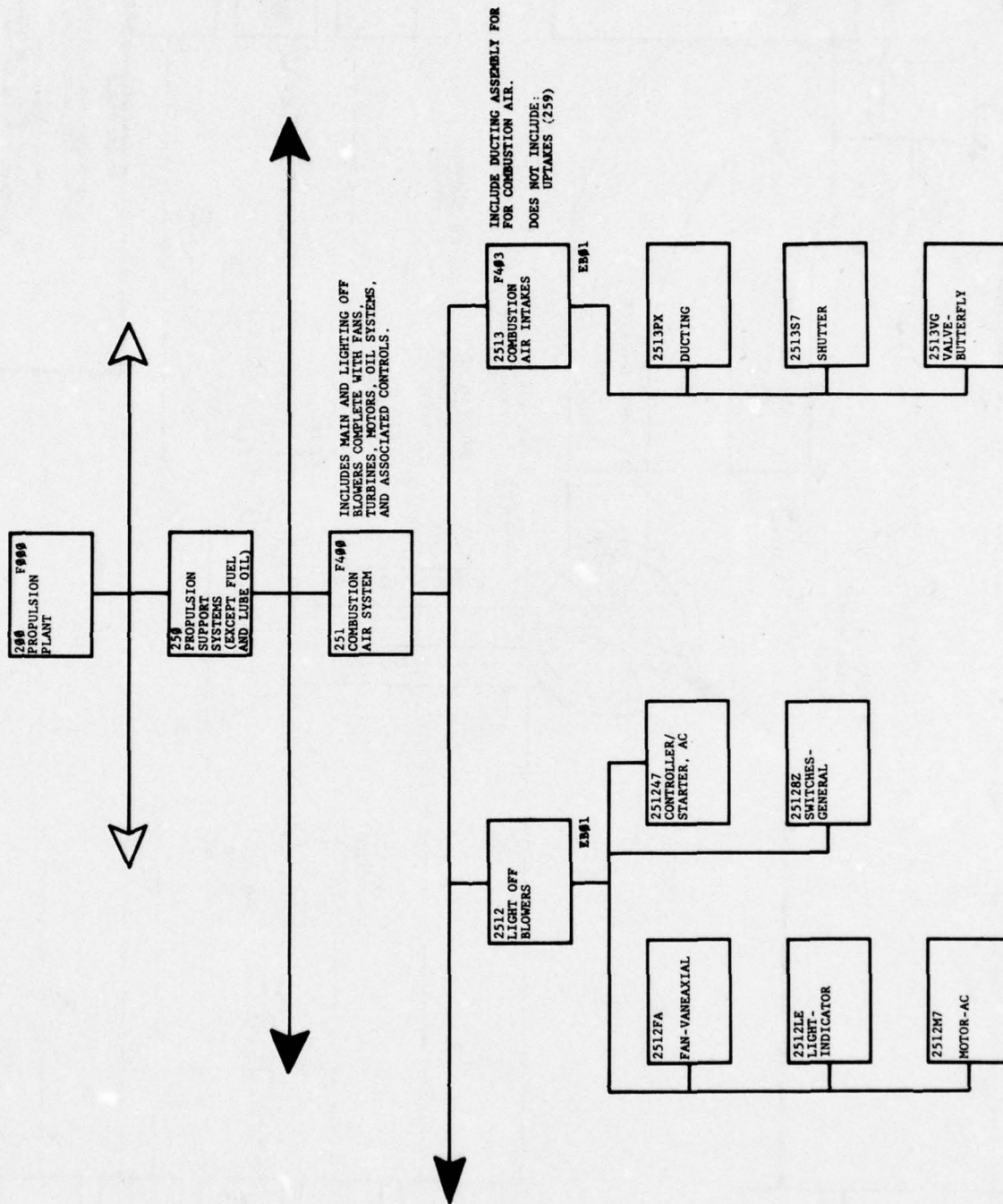
FF-1052 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
240 TRANSMISSION AND PROPULSION SYSTEMS  
243 PROPULSION SHAFTING

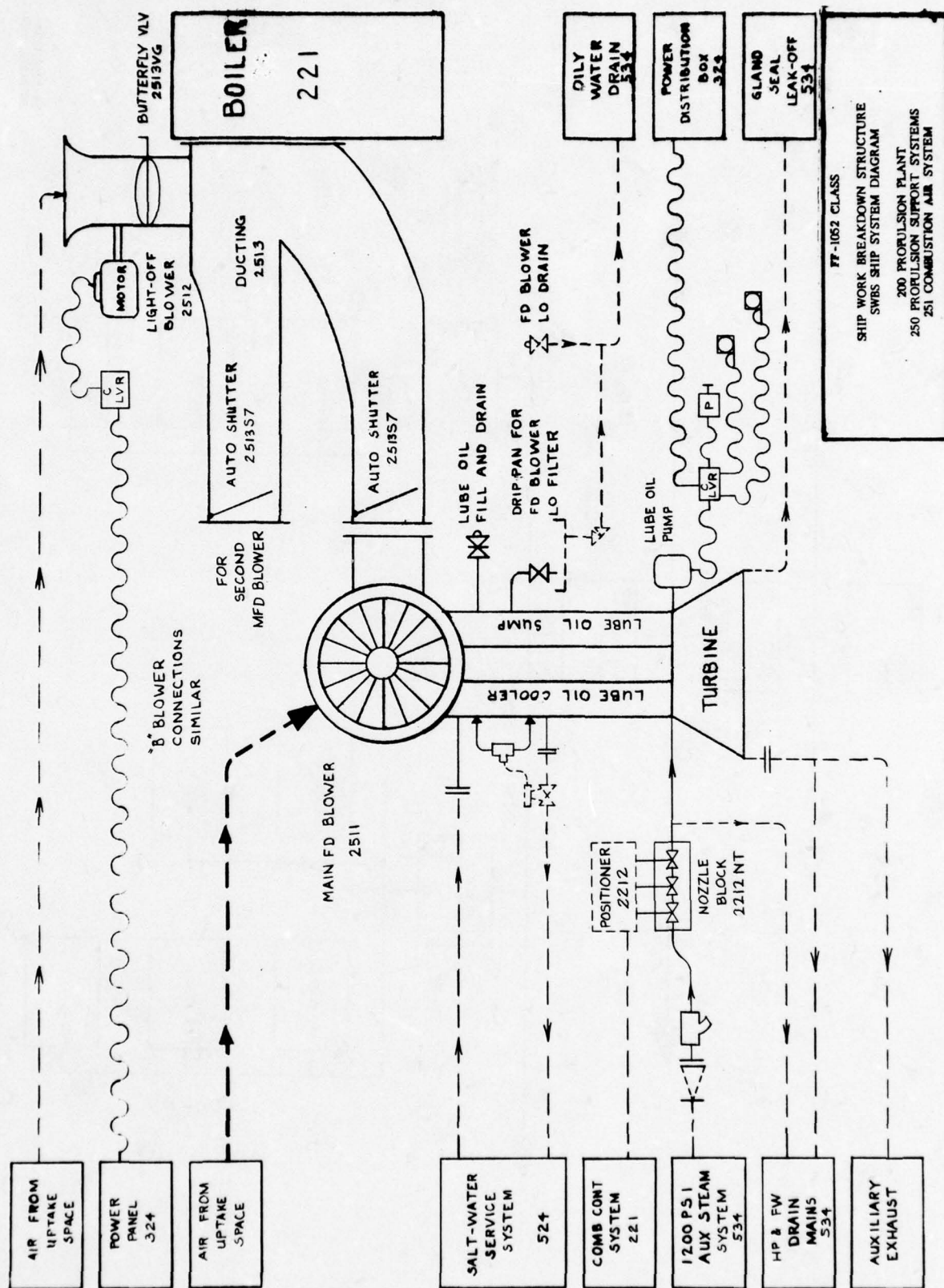


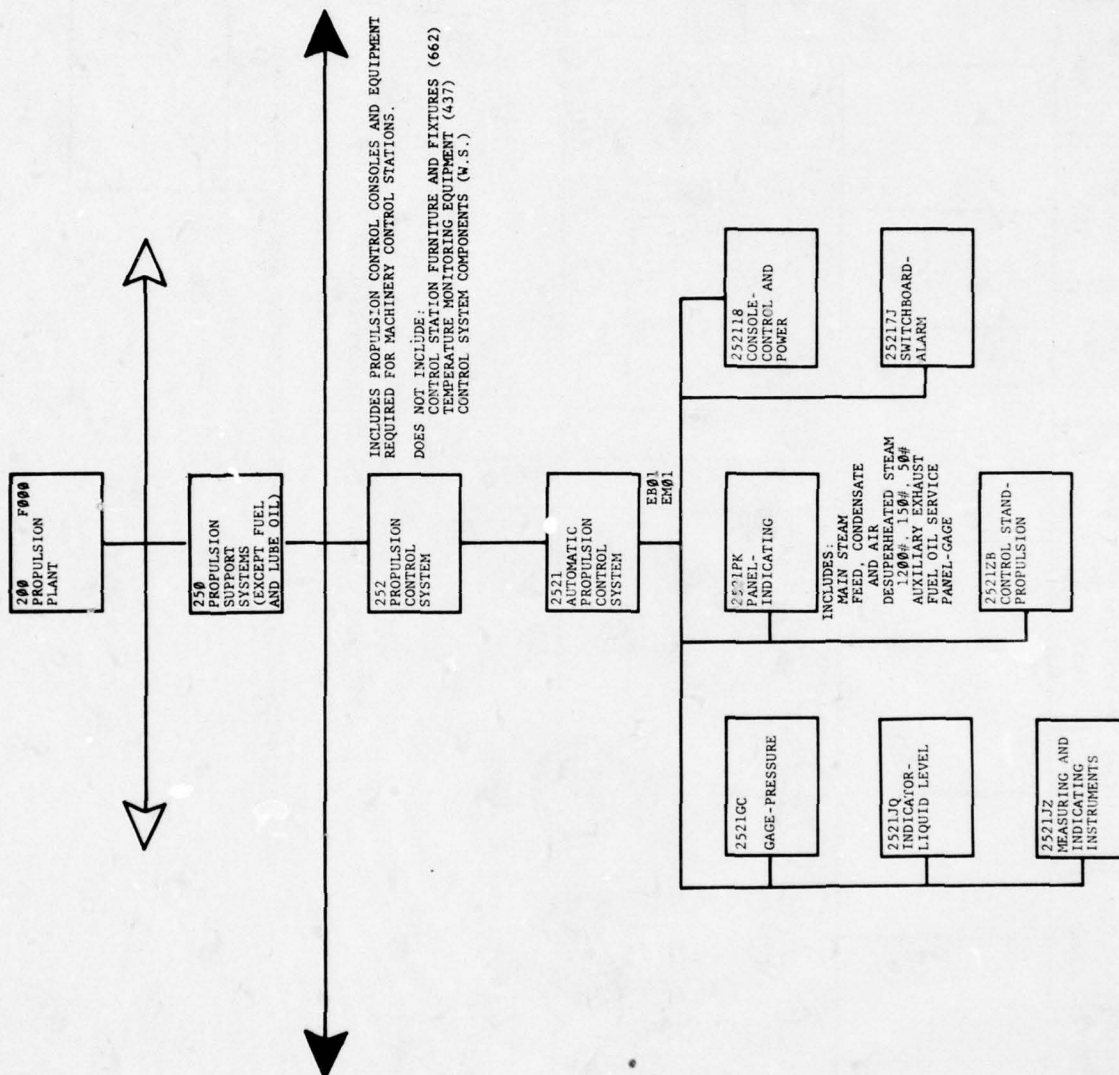


FF-1052 CLASS  
PREPARED 6-22-77

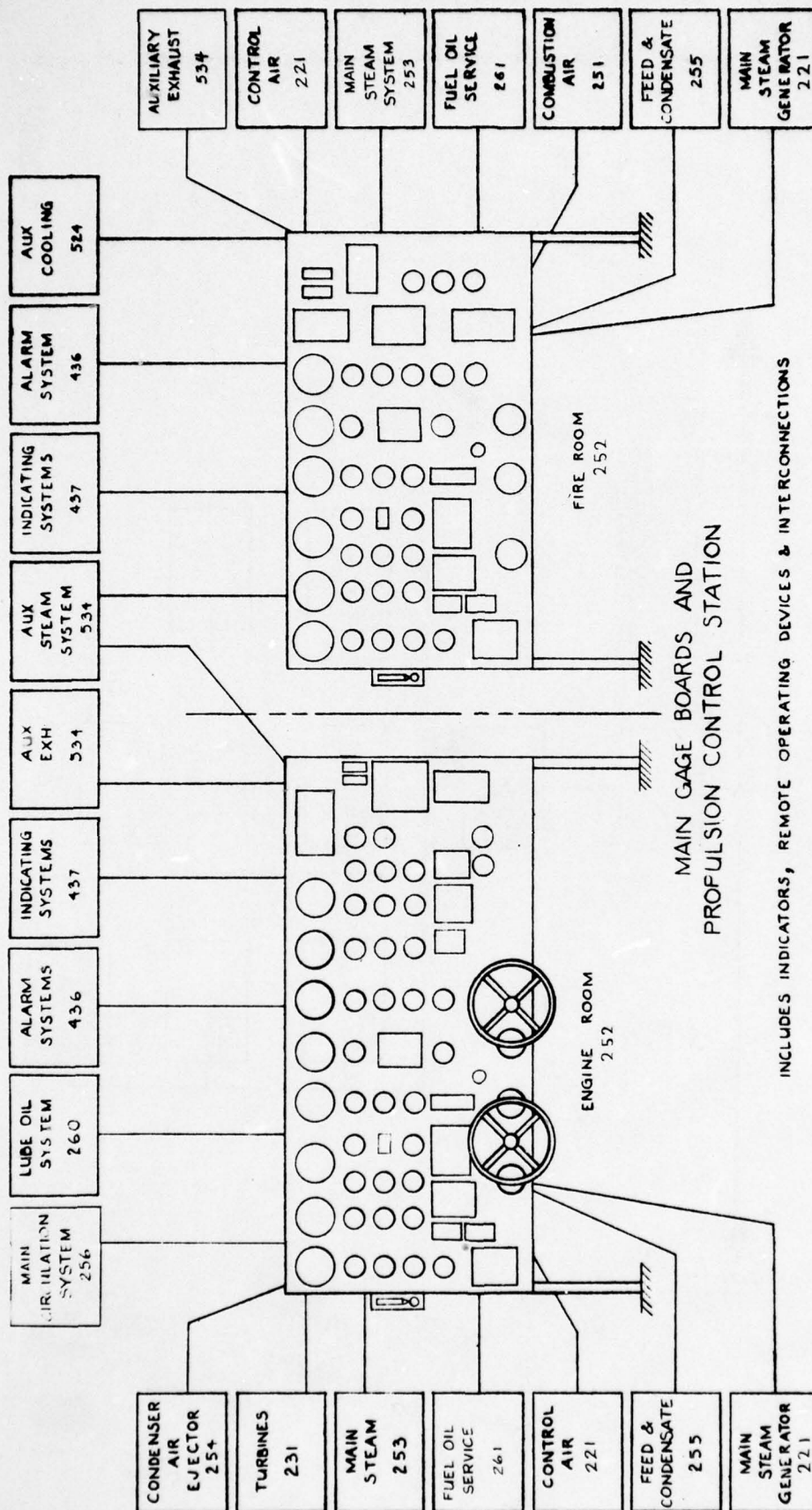








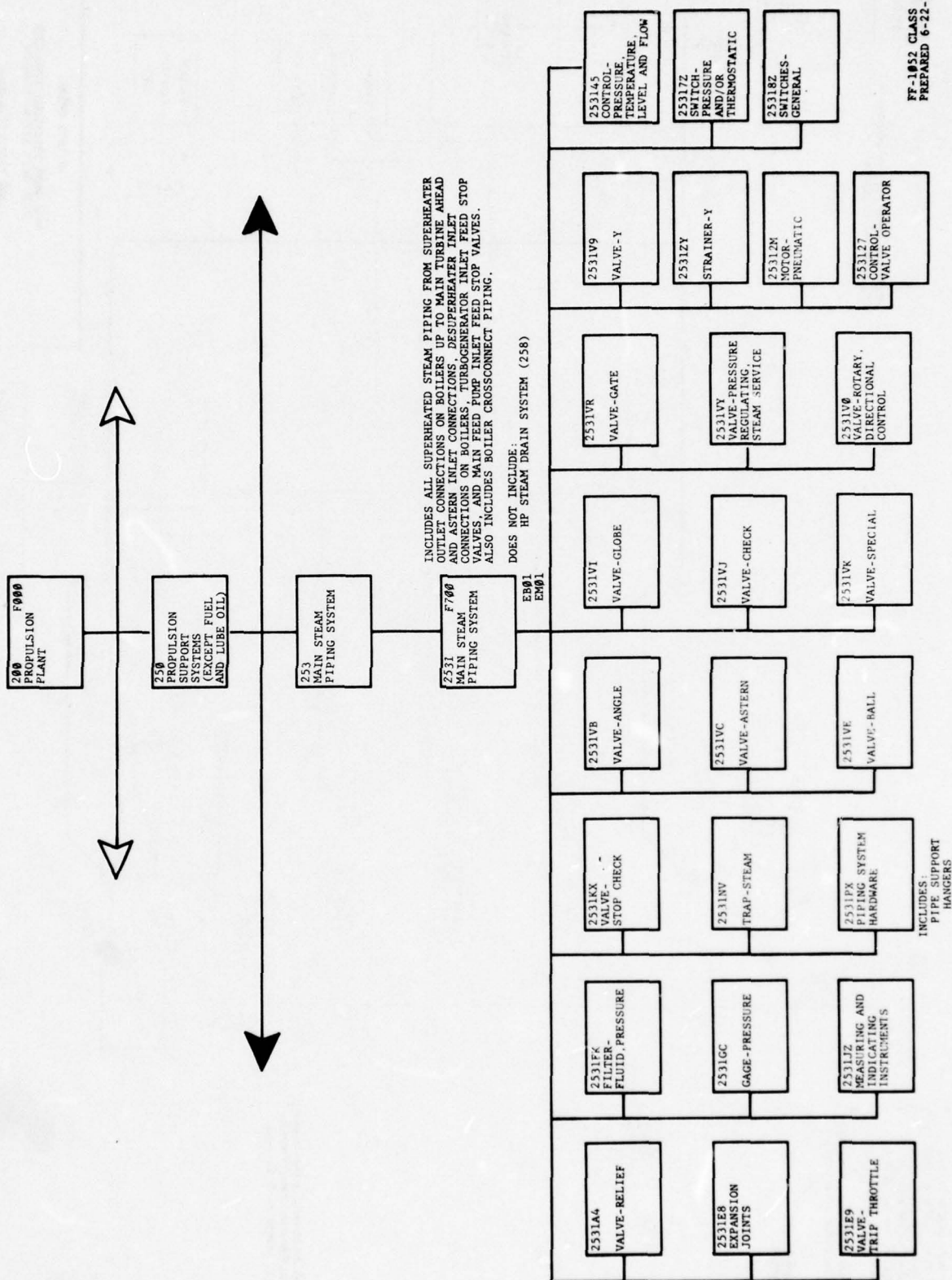


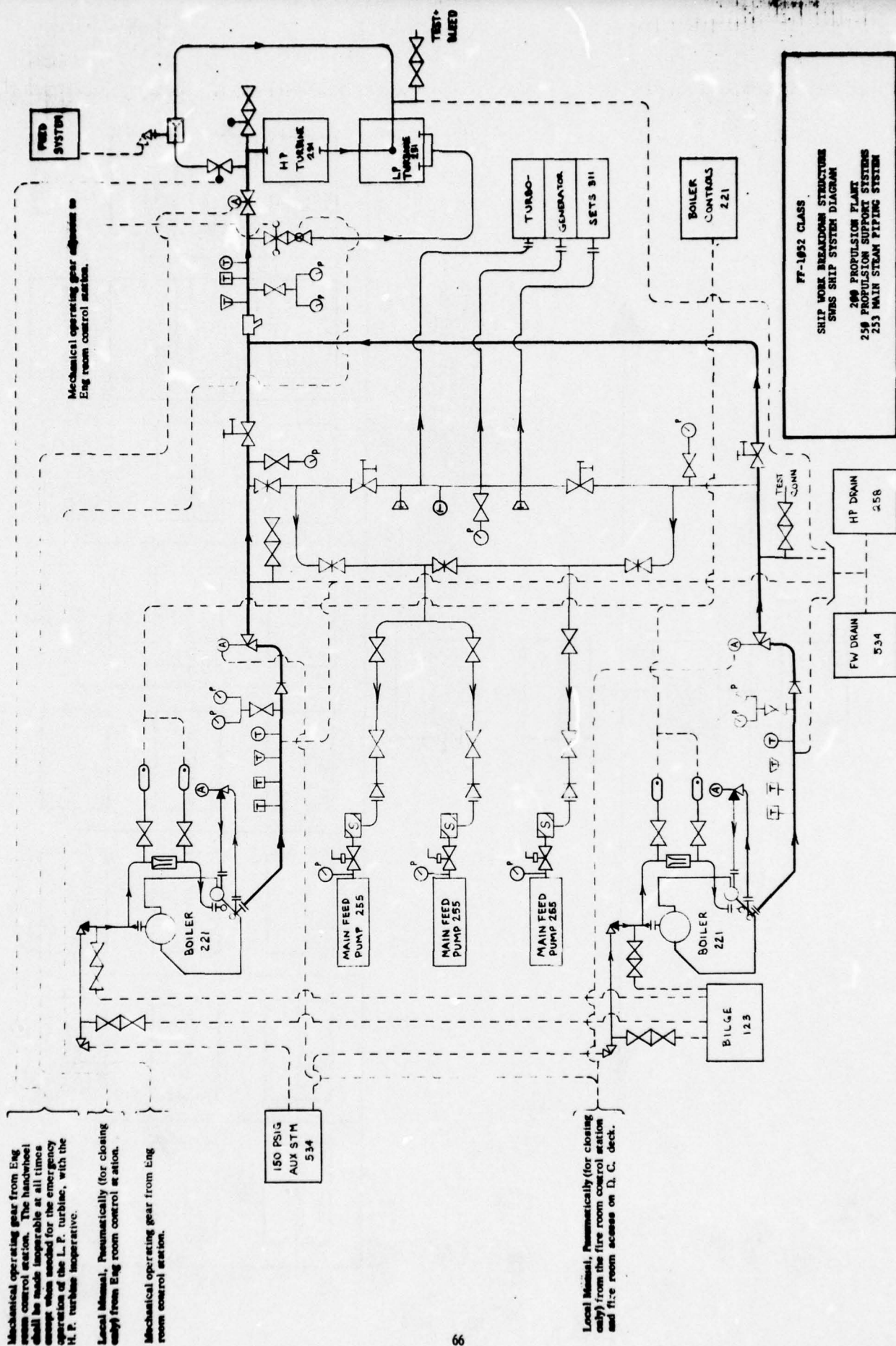


# MAIN GAGE BOARDS AND PROFULSION CONTROL STATION

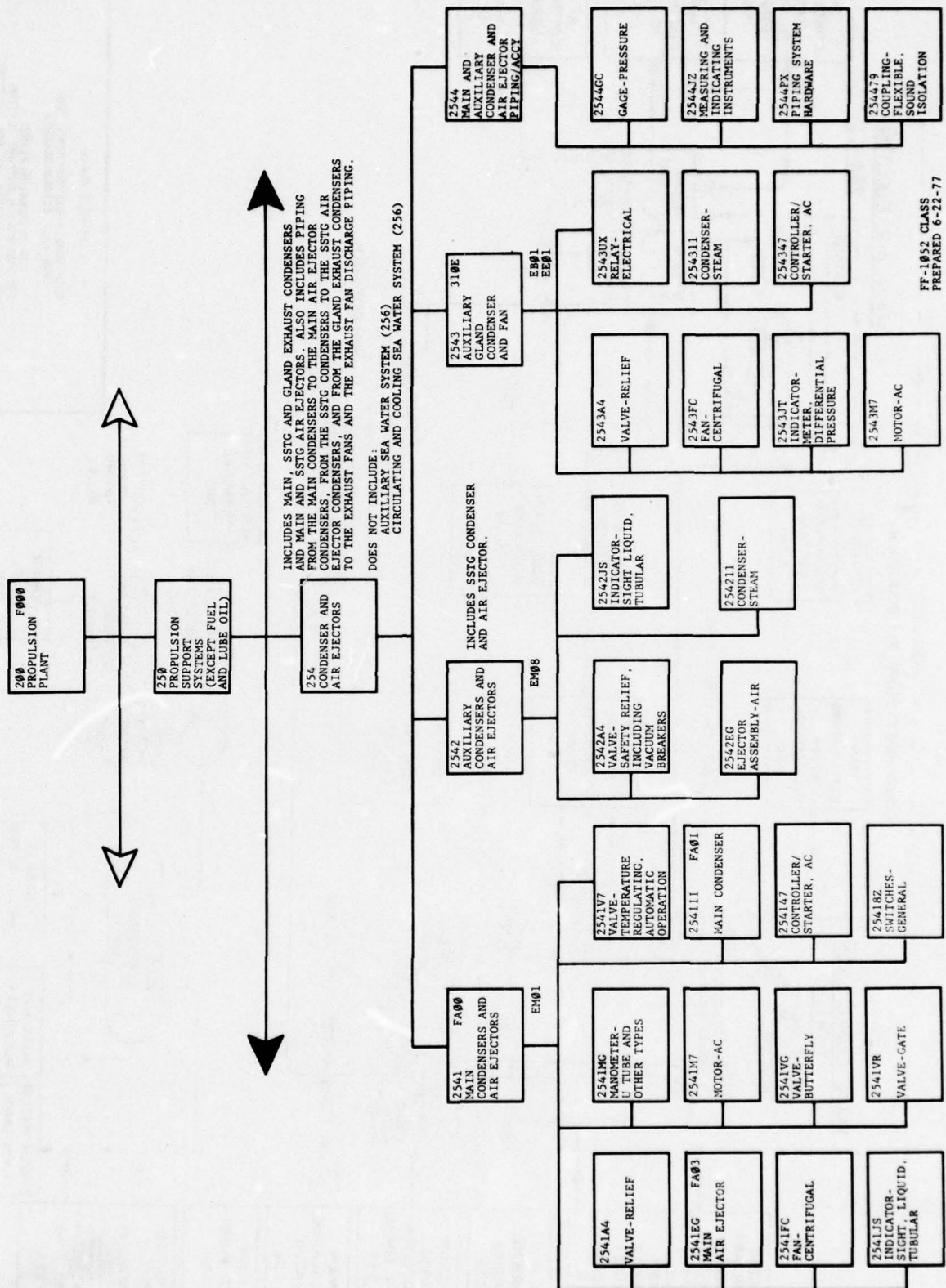
INCLUDES INDICATORS, REMOTE OPERATING DEVICES & INTERCONNECTIONS

FF-1052 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWDS SHIP SYSTEM DIAGRAM  
200 PROFULSION PLANT  
250 PROFULSION SUPPORT SYSTEMS  
252 PROFULSION CONTROL SYSTEM

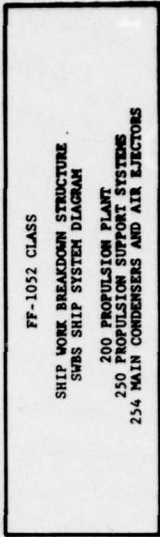


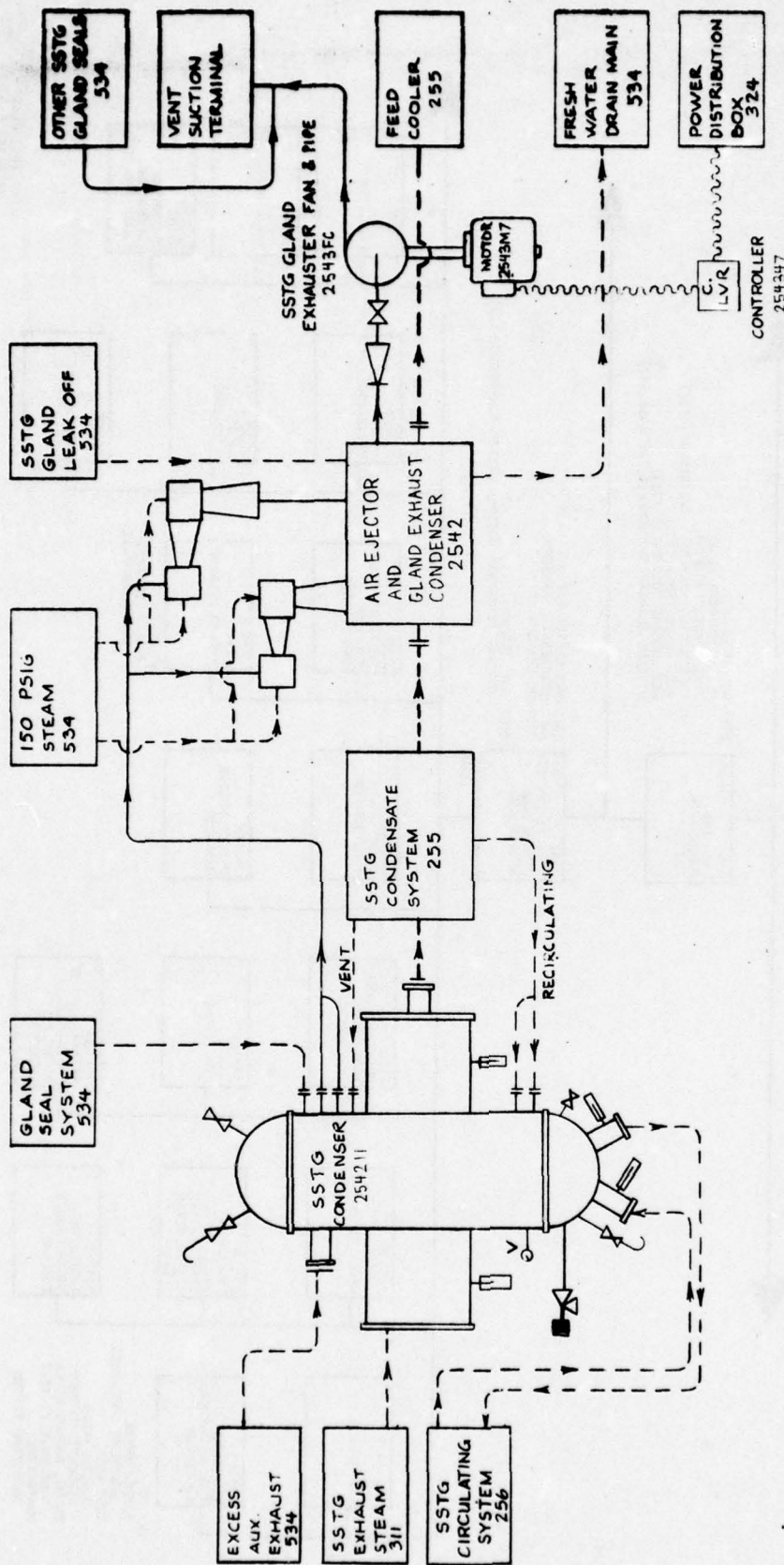






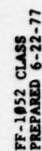
FF-1052 CLASS  
PREPARED 6-22-77

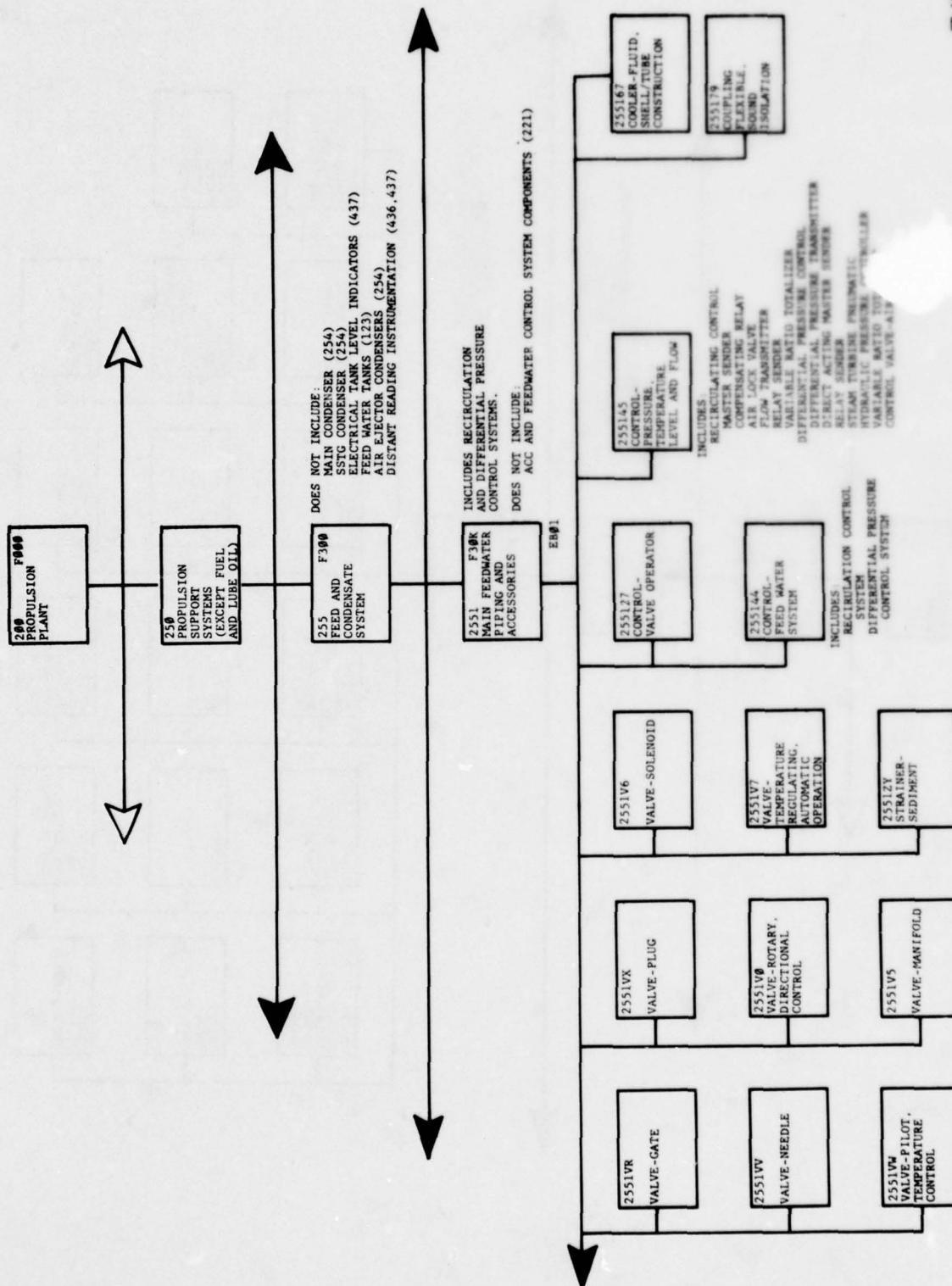


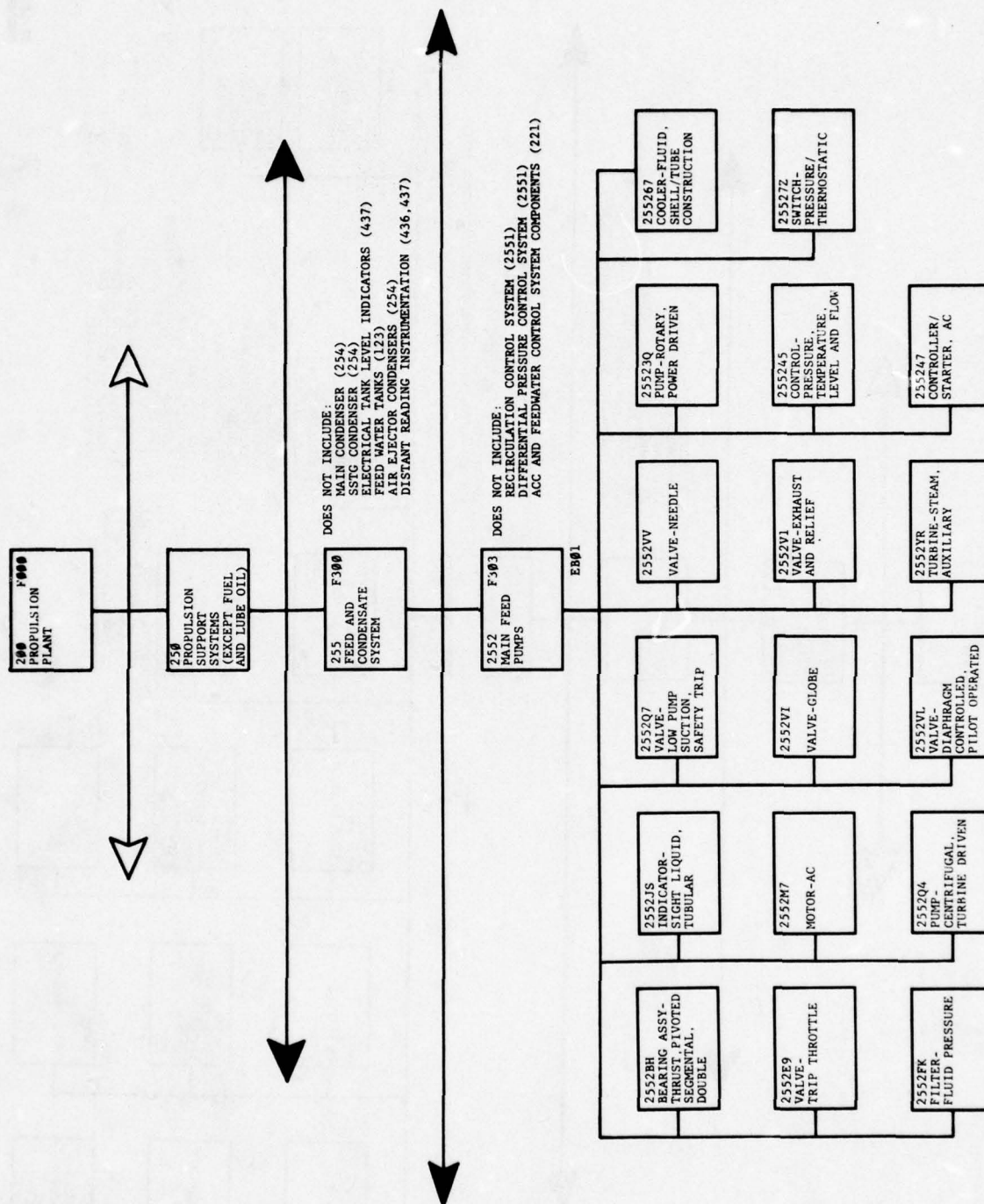


FF-1052 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
250 PROPULSION SUPPORT SYSTEMS  
254 CONDENSERS AND AIR EJECTORS



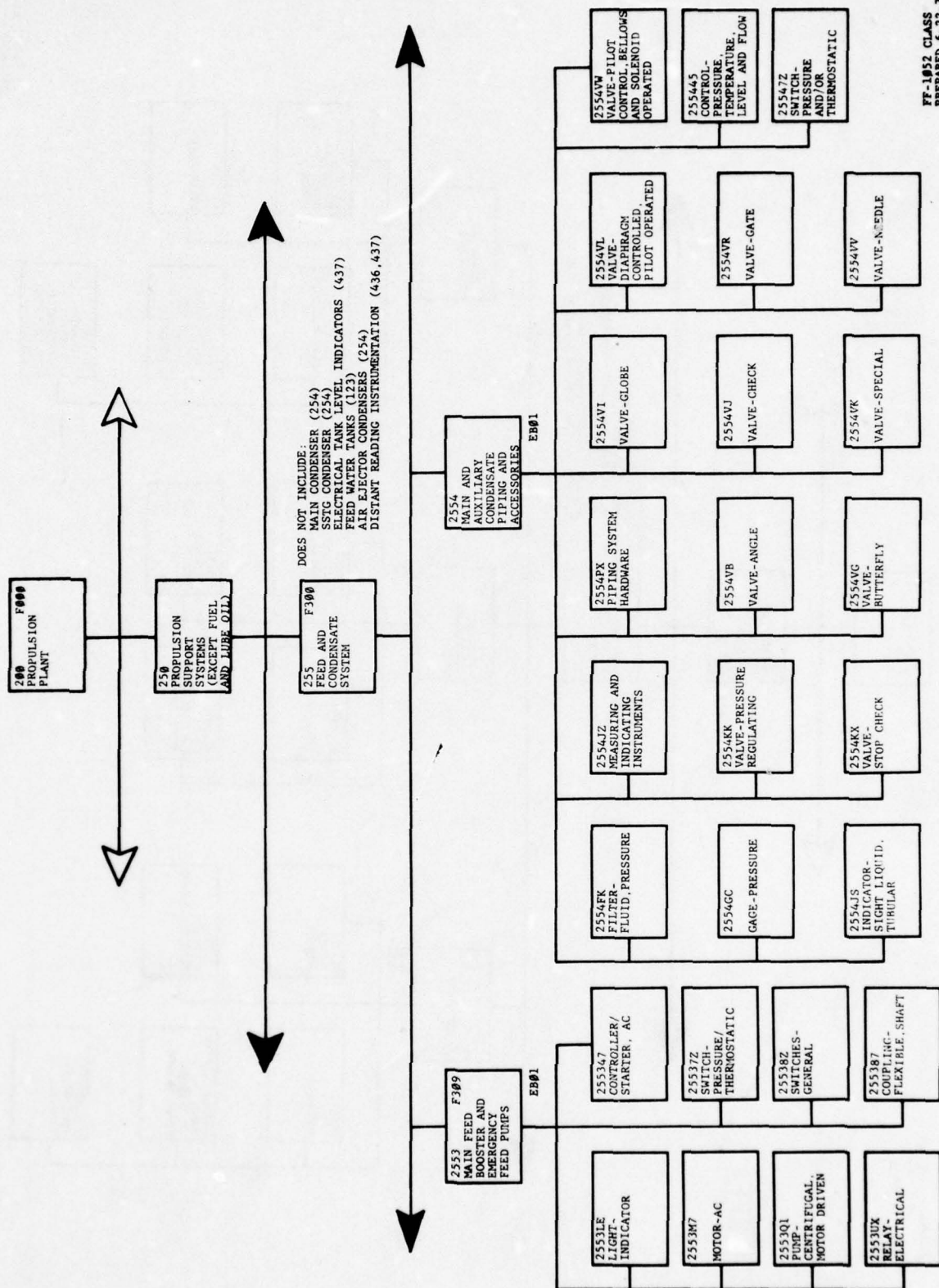




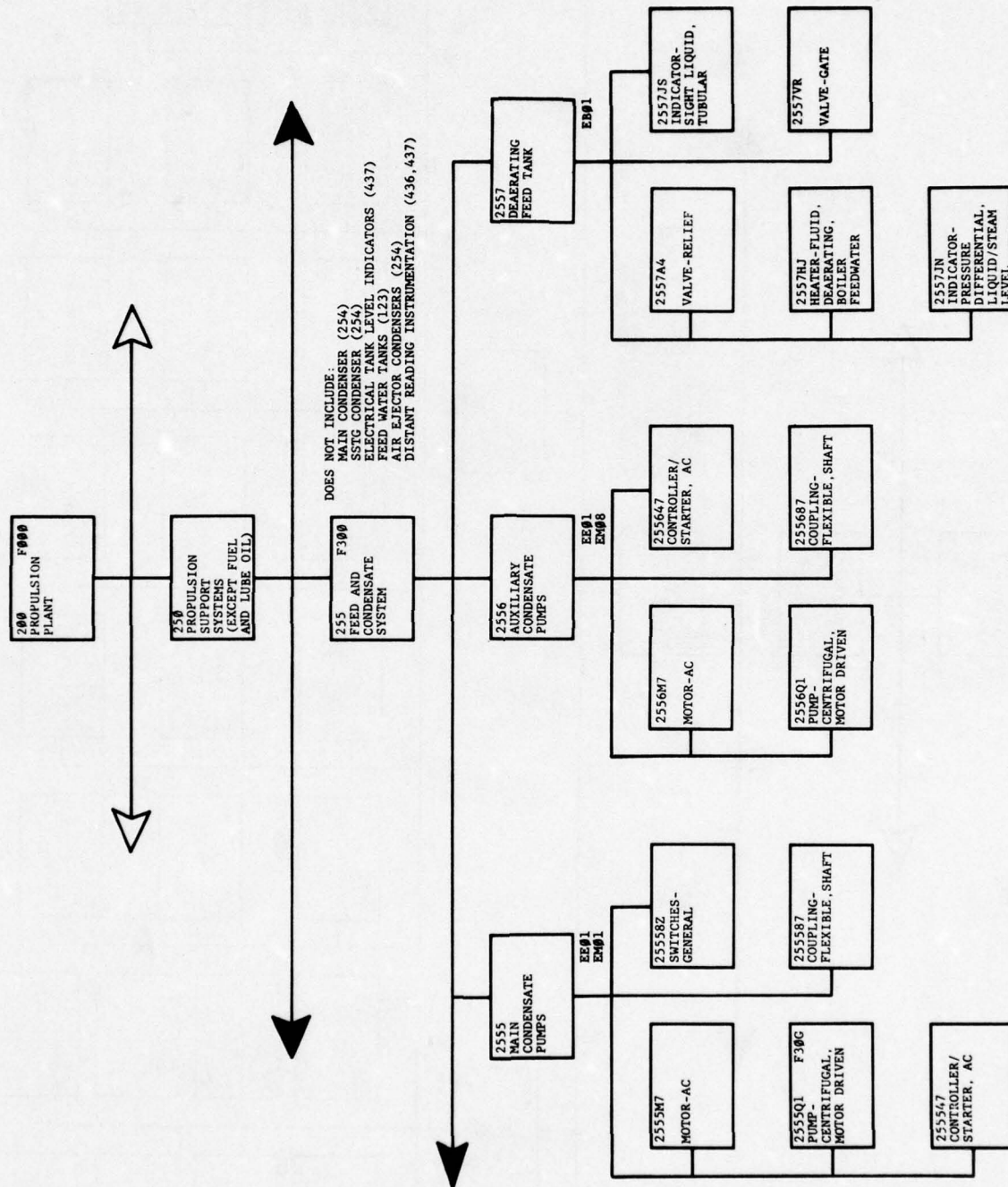


FF-1032 CLASS  
 PREPARED 6-21-77

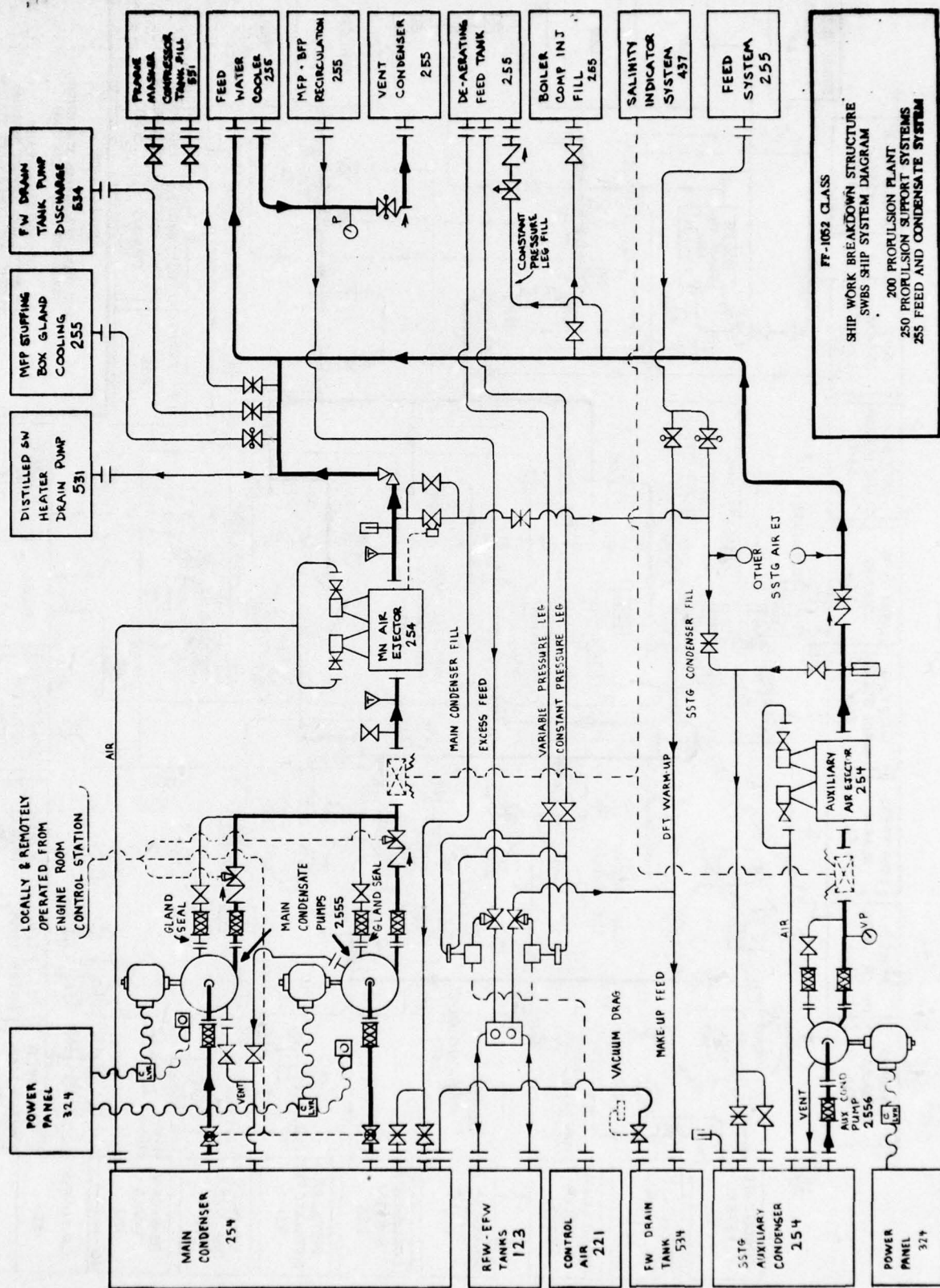




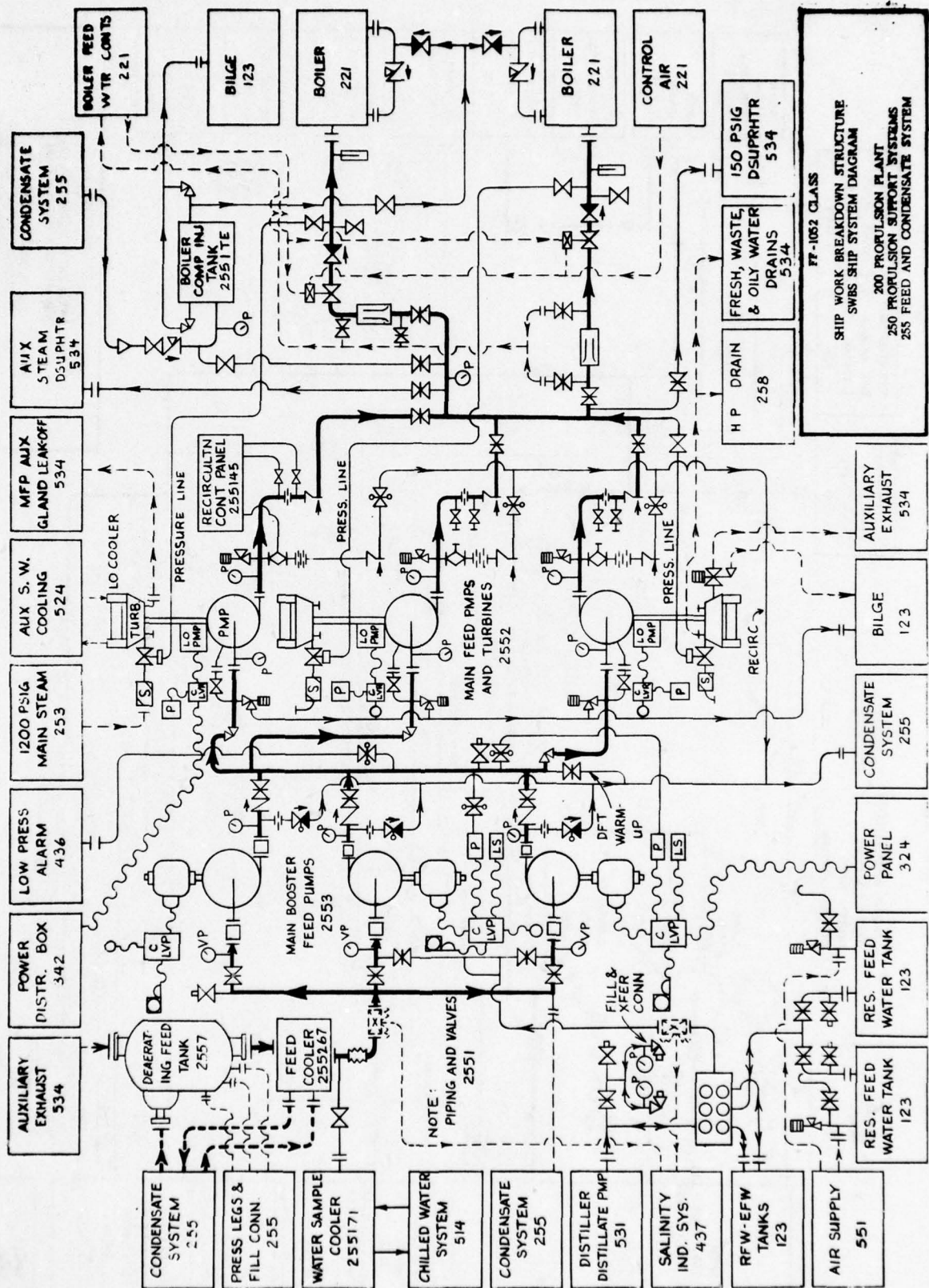
FF-1052 CLASS  
 PREPARED 6-22-77

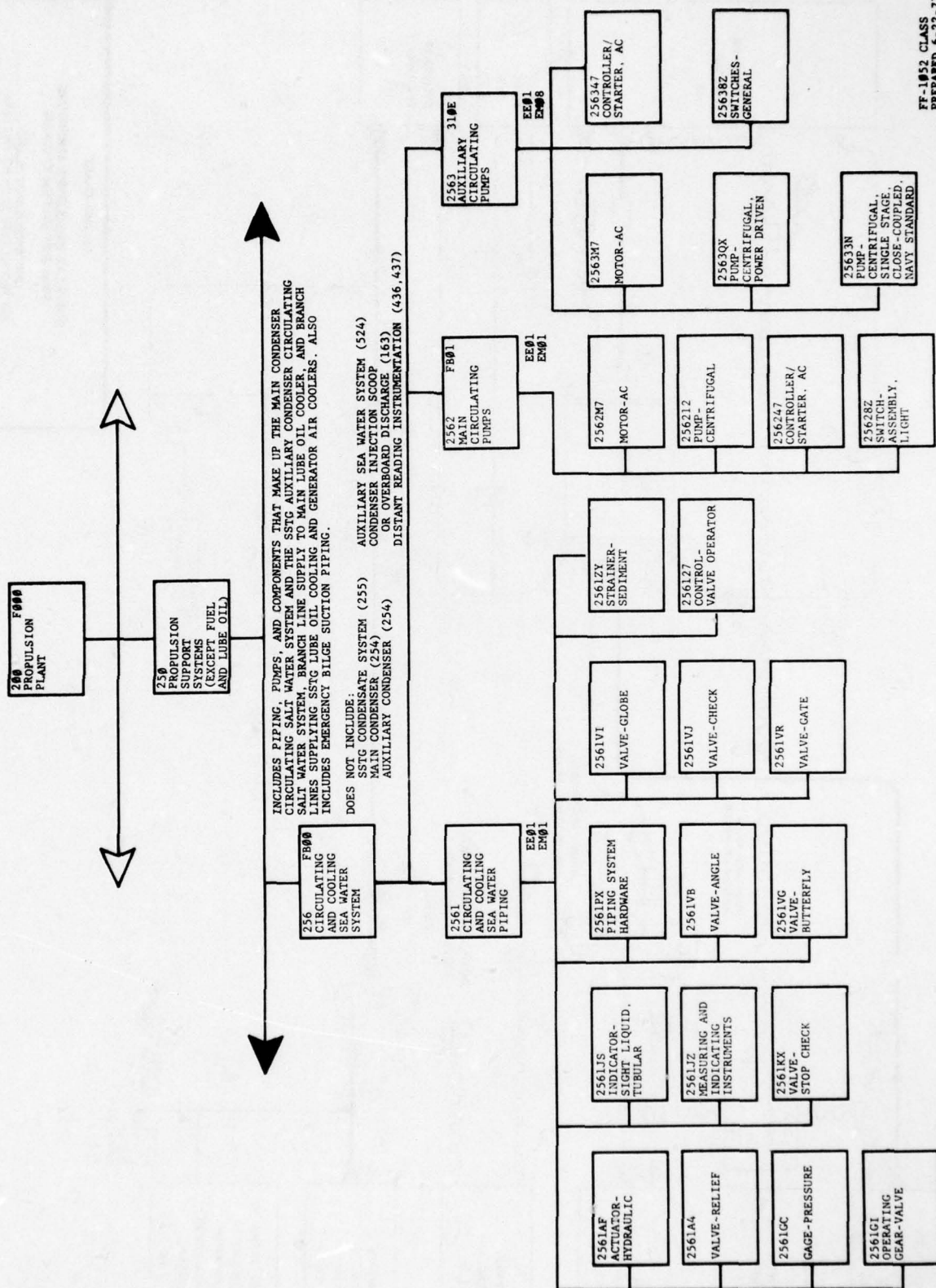


FF-1052 CLASS  
PREPARED 6-22-77

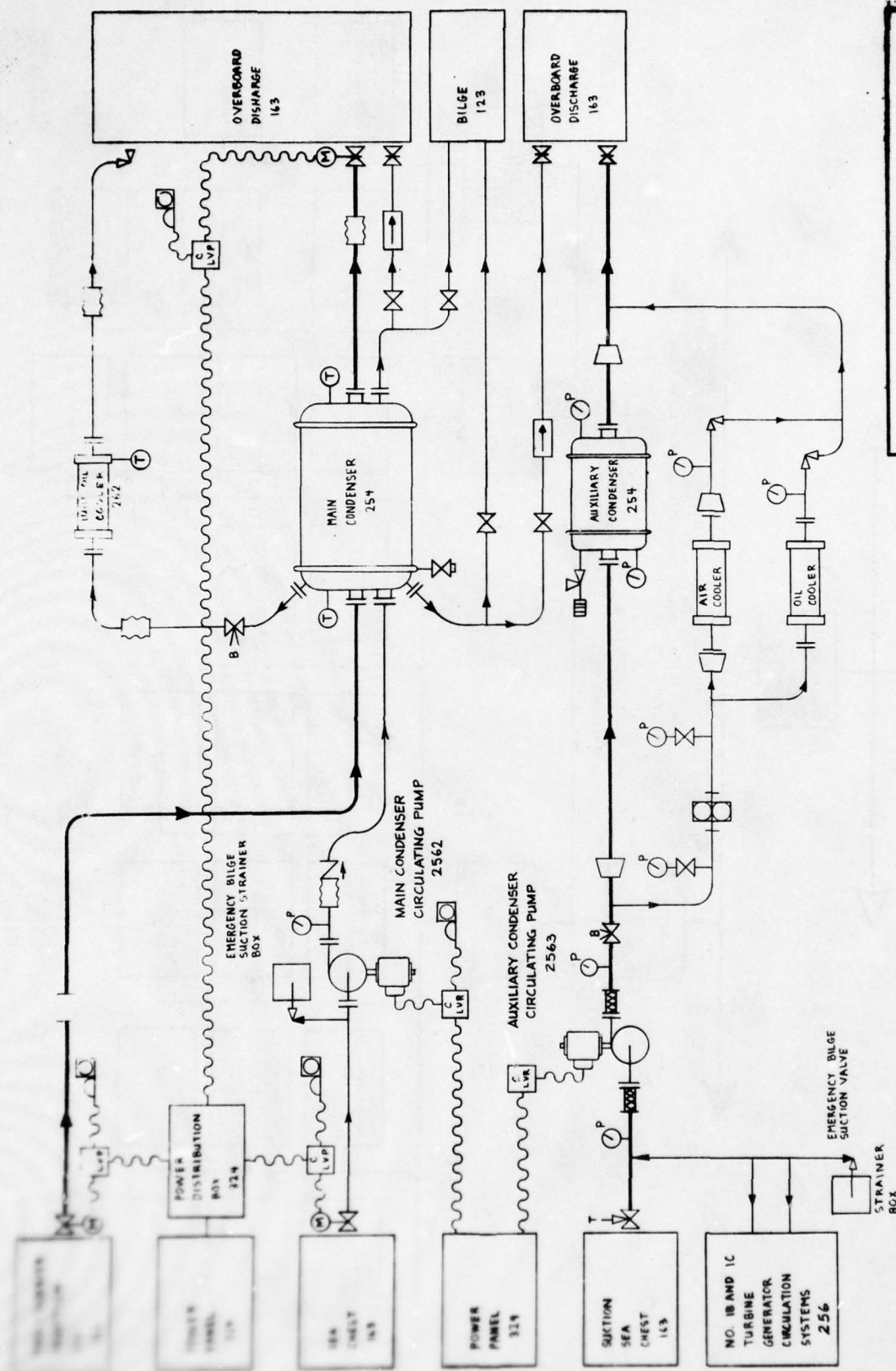








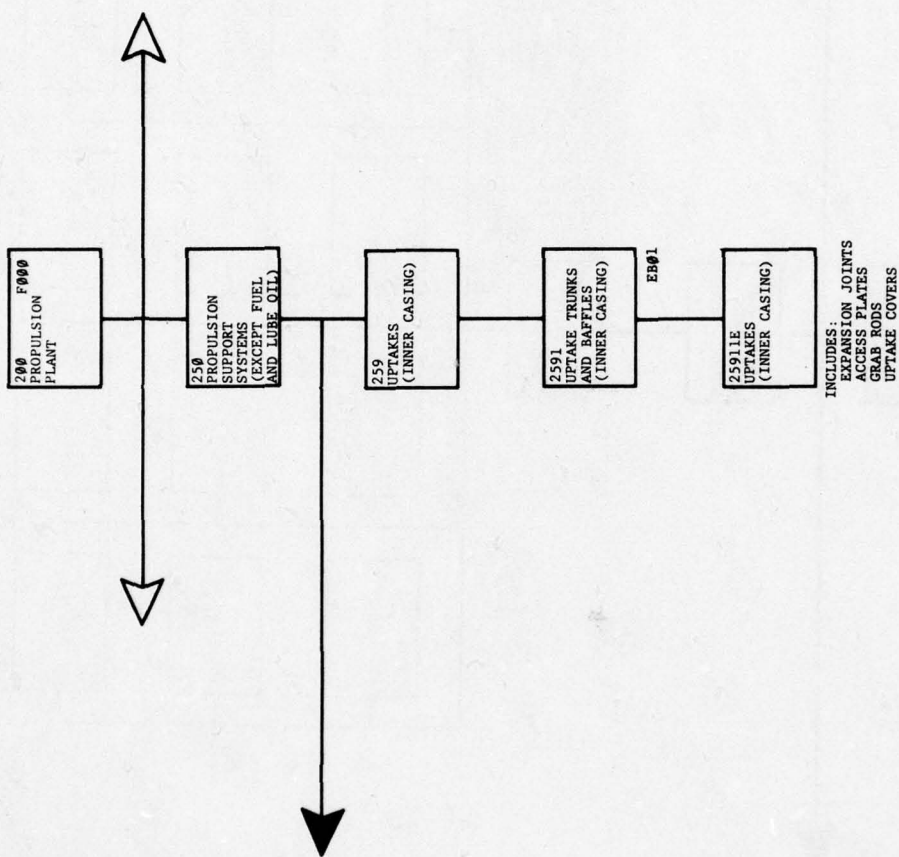
FF-1052 CLASS  
PREPARED 6-22-77

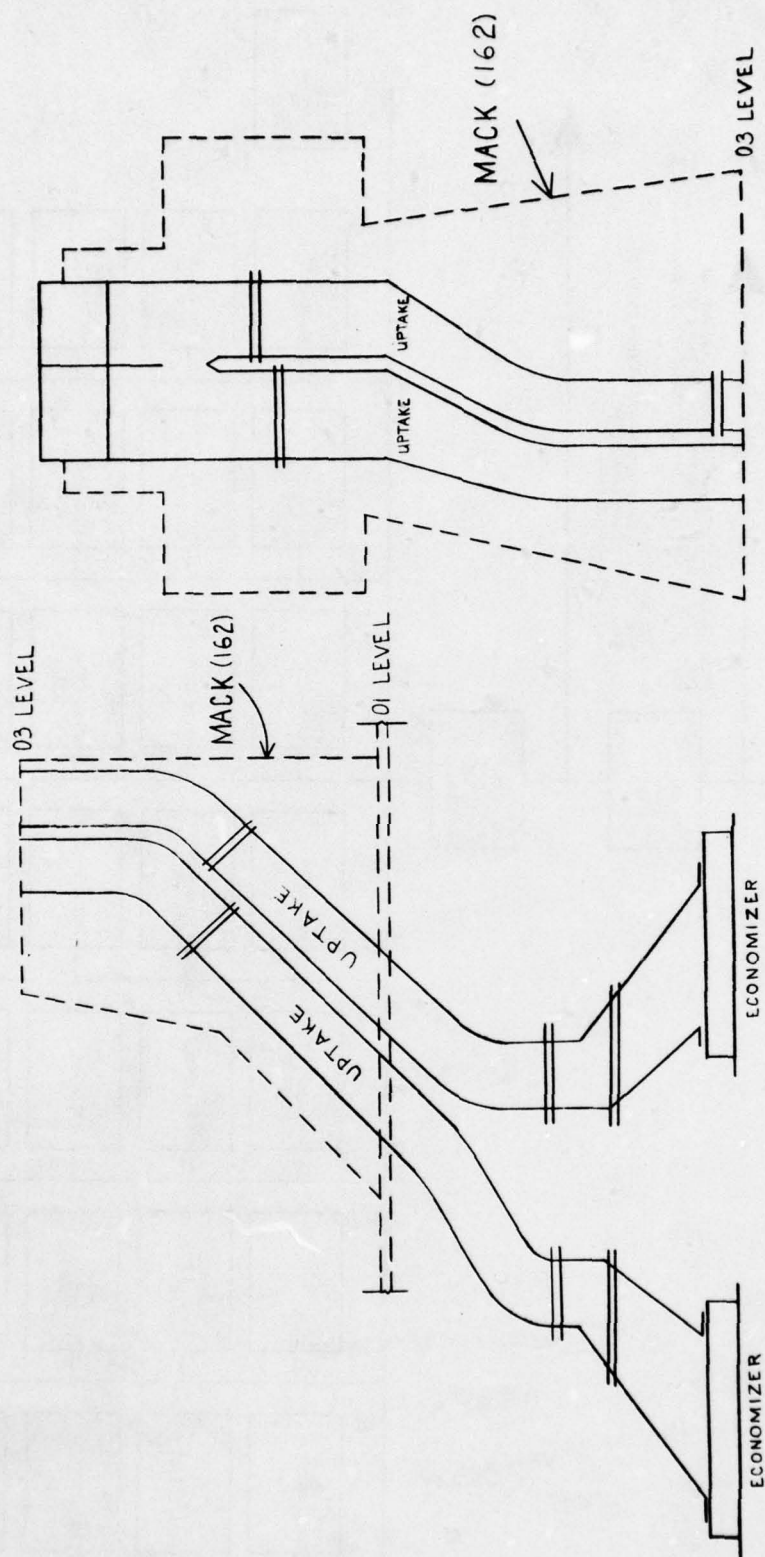


FF-1052 CLASS  
 SHIP WORK BREAKDOWN STRUCTURE  
 SWBS SHIP SYSTEM DIAGRAM  
 200 PROKULSON PLANT  
 250 PROKULSON SUPPORT SYSTEMS  
 256 CIRCULATING AND COOLING WATER SEA SYSTEMS





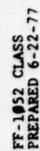


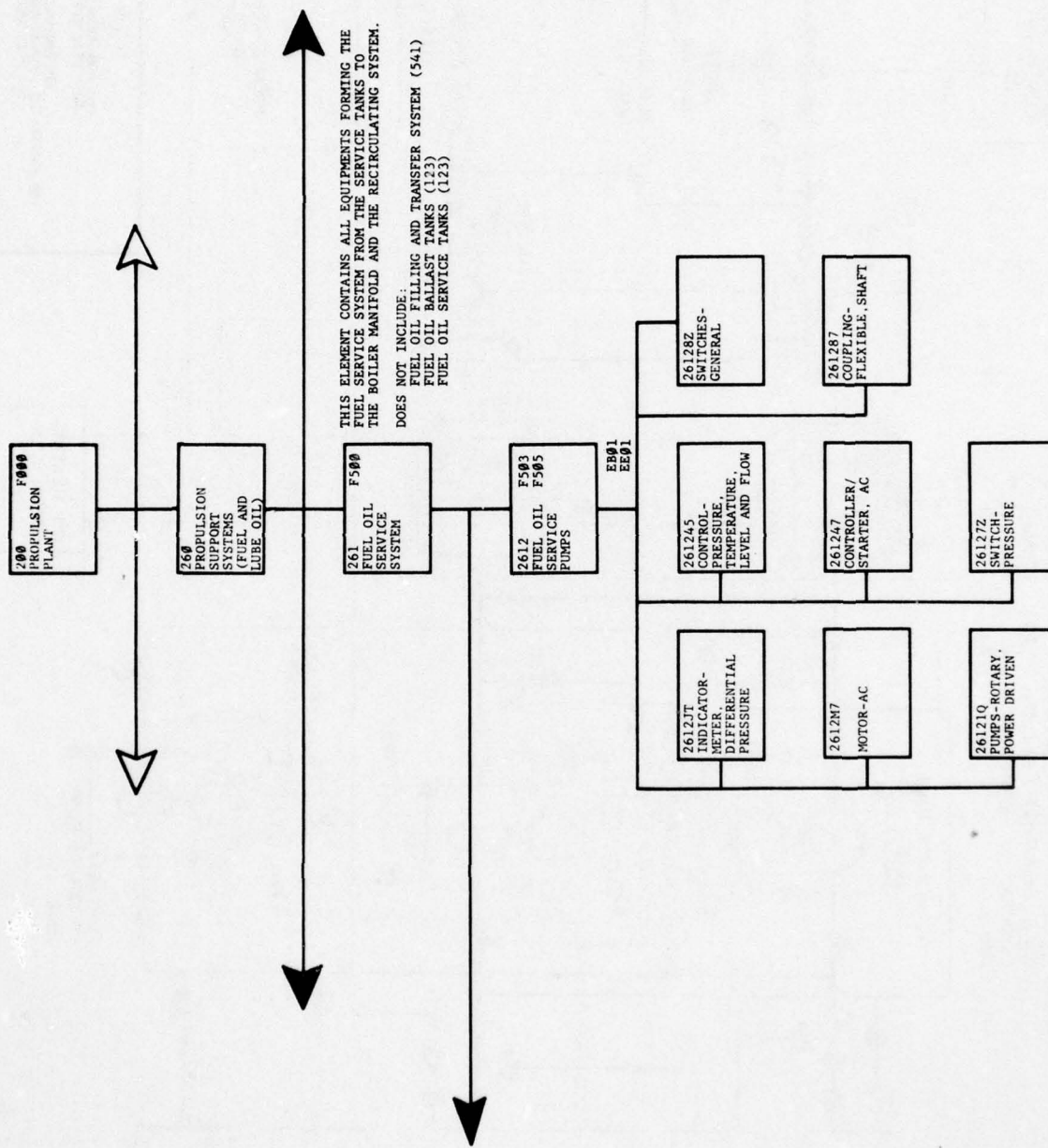


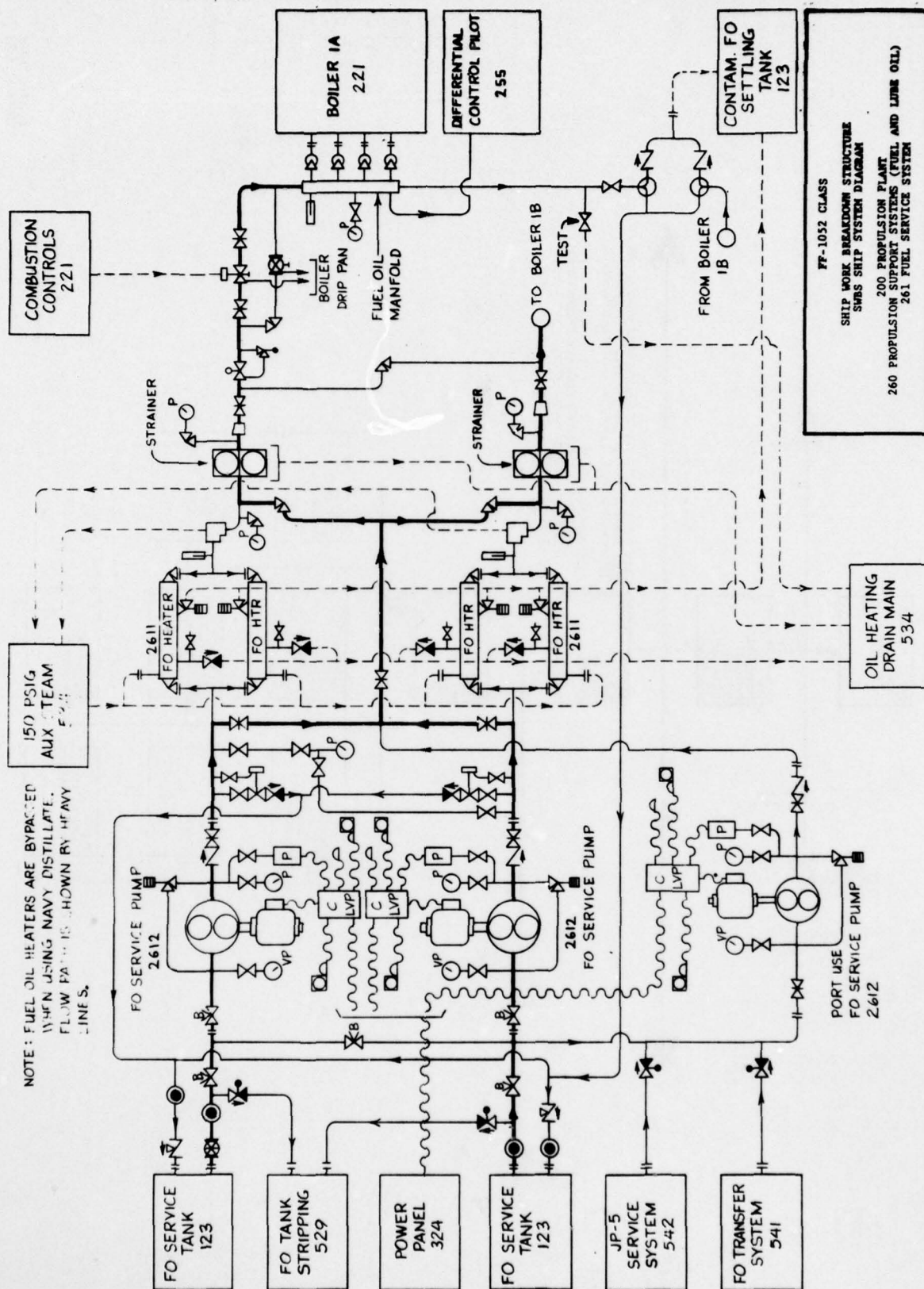
## 259 UPTAKES

FF-1052 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
250 PROPULSION SUPPORT SYSTEMS  
259 UPTAKES (INNER CASING)



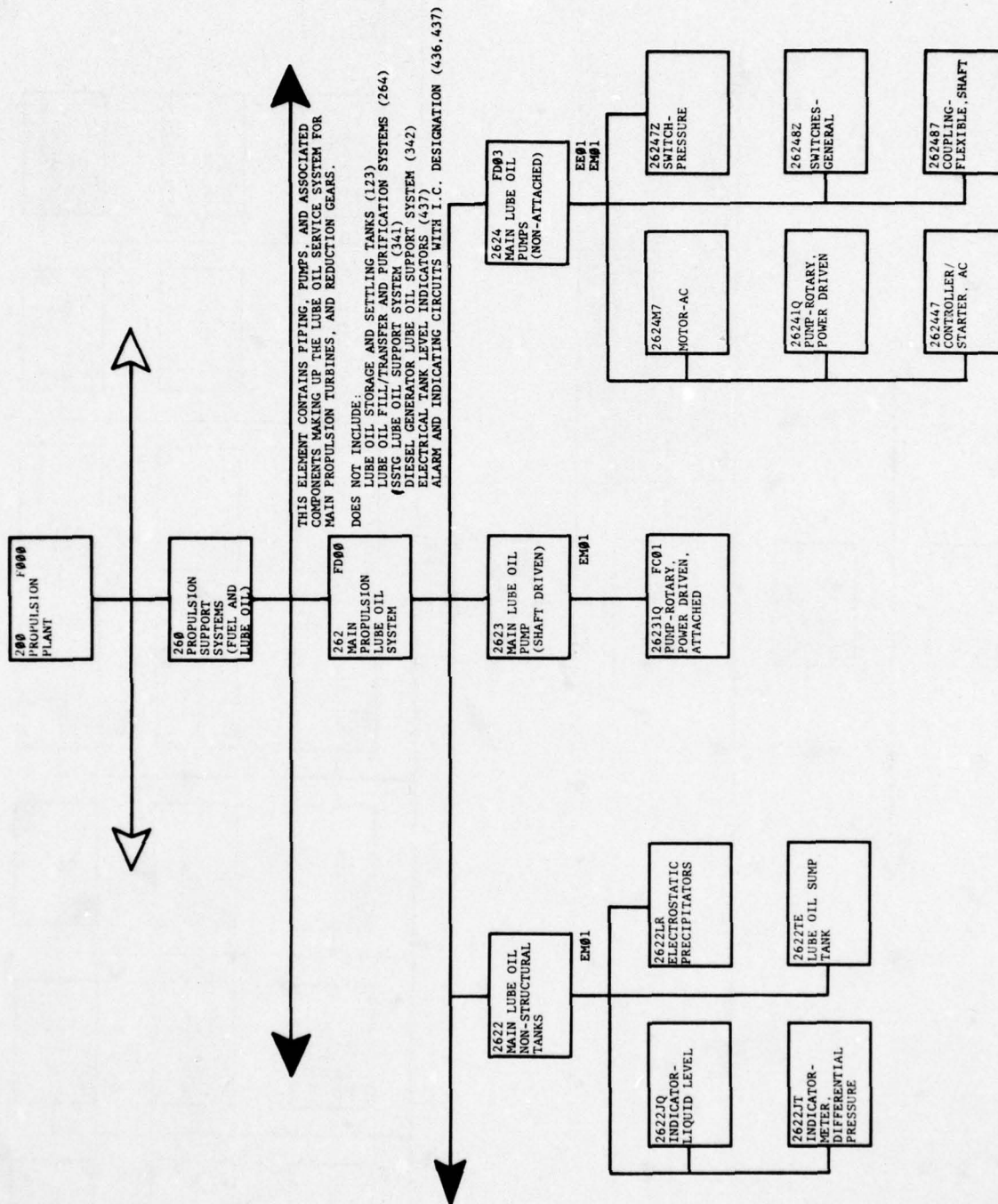




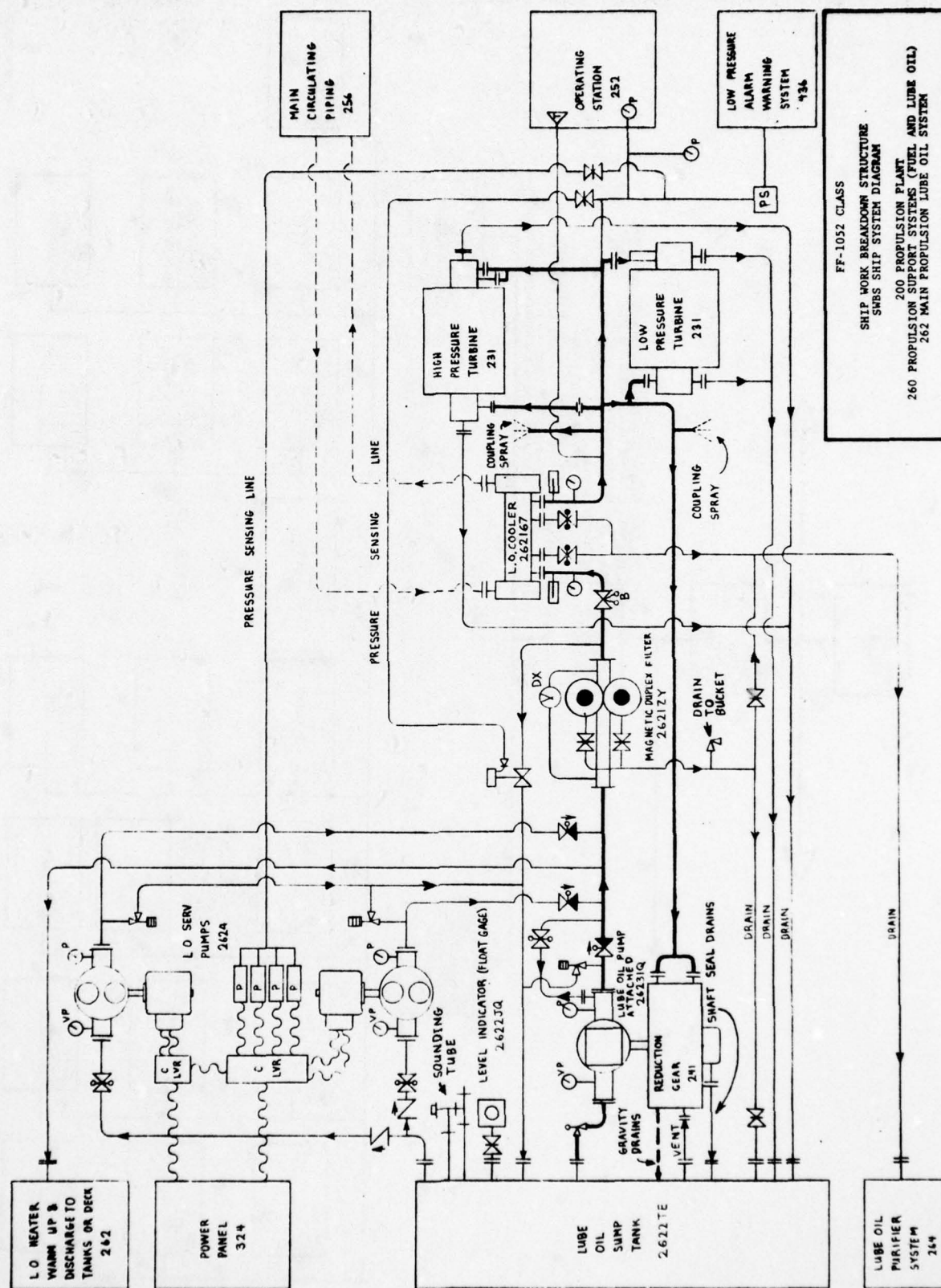




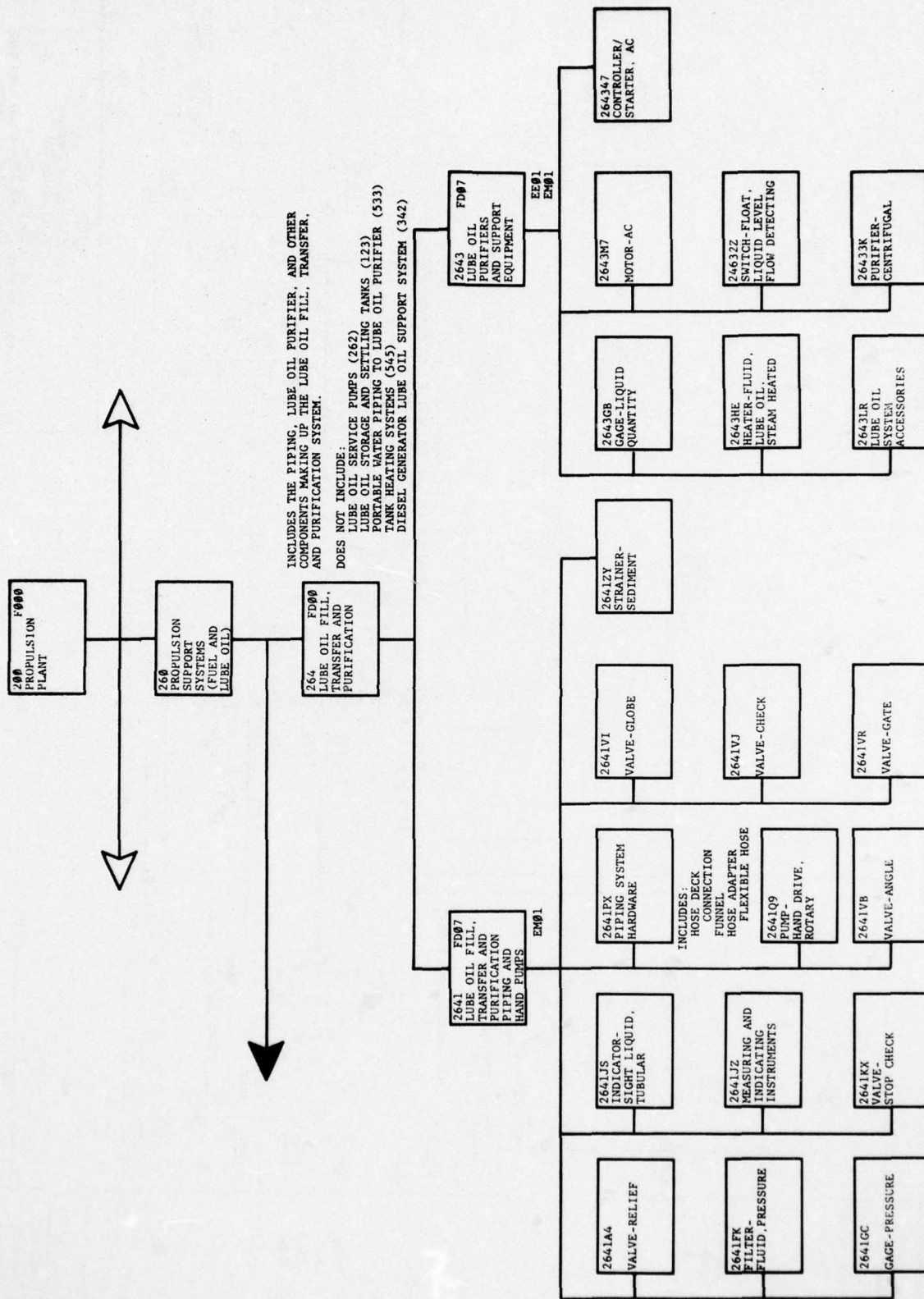




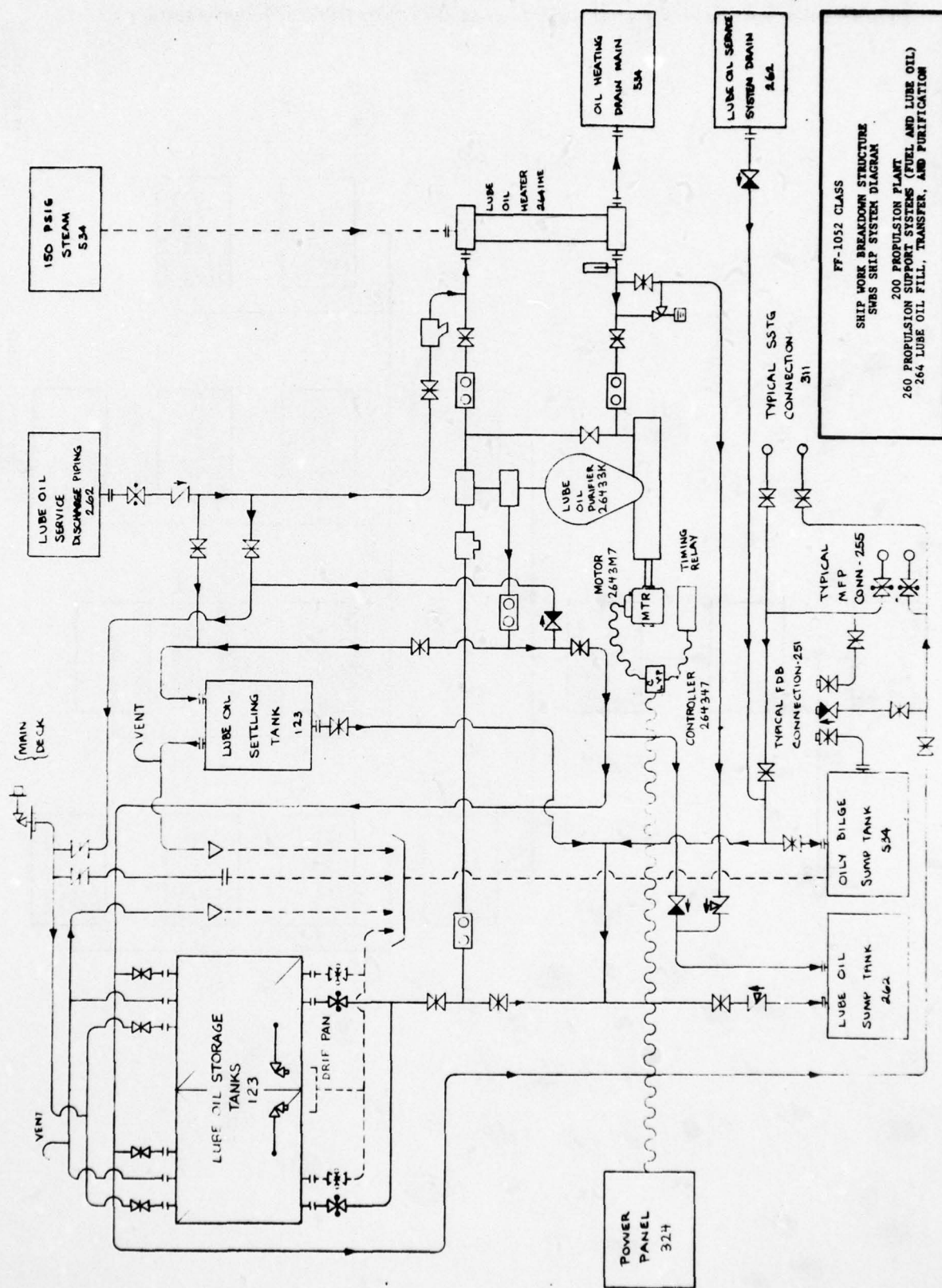
FF-1052 CLASS  
PREPARED 6-22-77



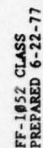




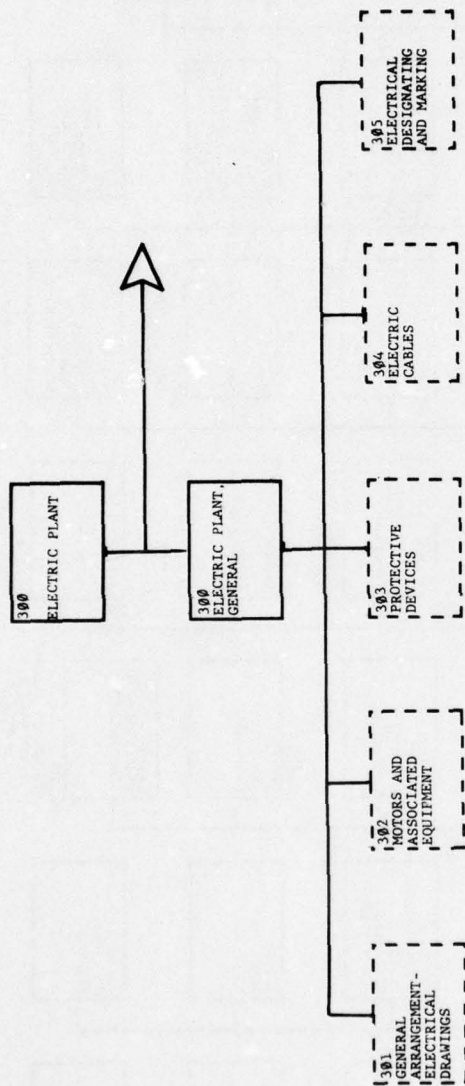
FF-1052 CLASS  
PREPARED 6-22-77



FF-1052 CLASS  
SHIP WORK BREAKDOWN STRUCTURE  
SHRS SHIP SYSTEM DIAGRAM  
200 PROPULSION PLANT  
260 PROPULSION SUPPORT SYSTEMS (FUEL AND LUBE OIL)  
264 LUBE OIL FILL, TRANSFER, AND PURIFICATION







AD-A050 439

ARINC RESEARCH CORP ANNAPOLIS MD  
SHIP SYSTEMS DEFINITION AND INDEX (SWBS STAGING DIAGRAMS) FOR F--ETC(U)  
OCT 76

F/G 13/10

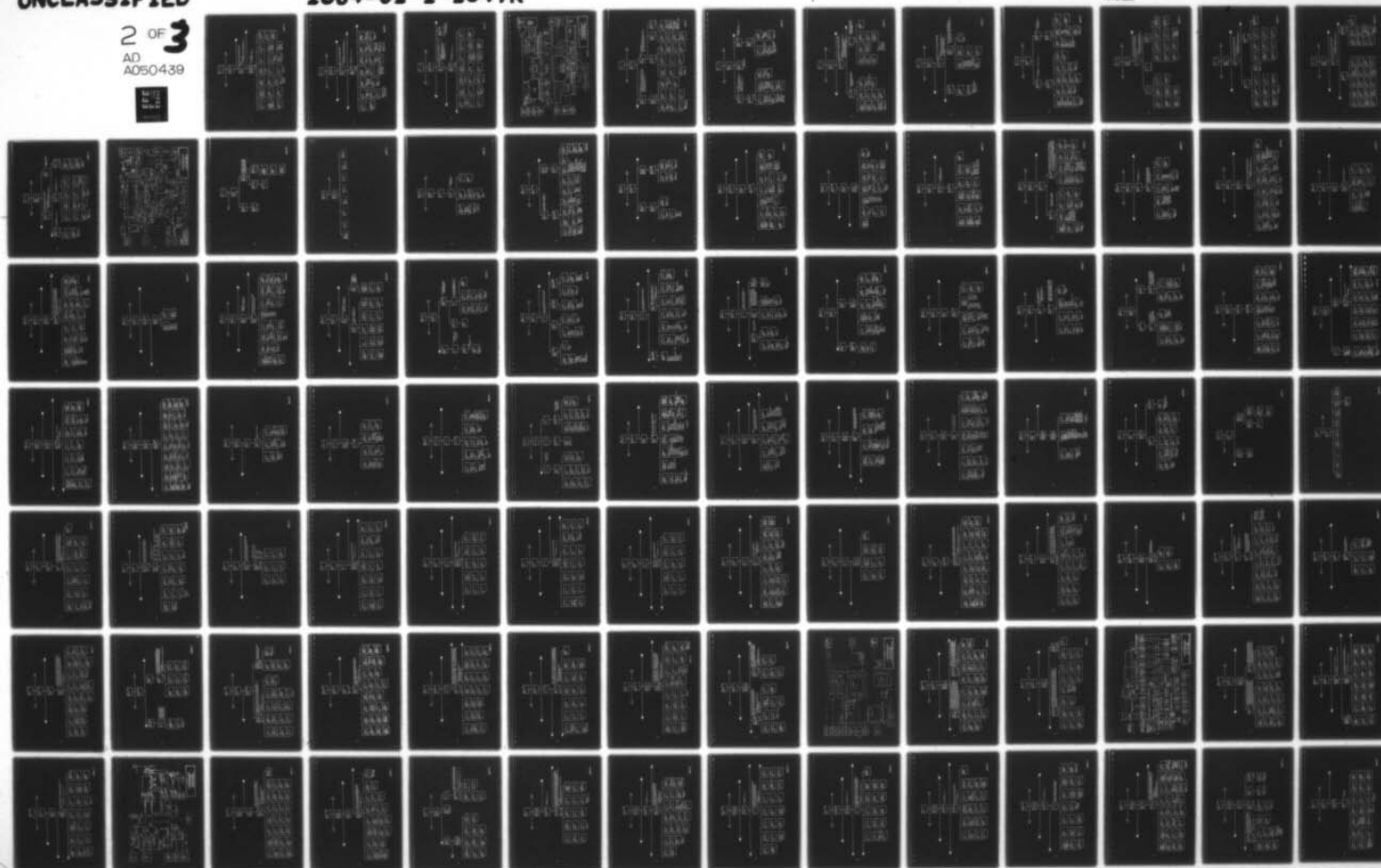
N00140-76-D-0813

UNCLASSIFIED

1804-01-1-1547R

NL

2 OF 3  
AD  
A050439



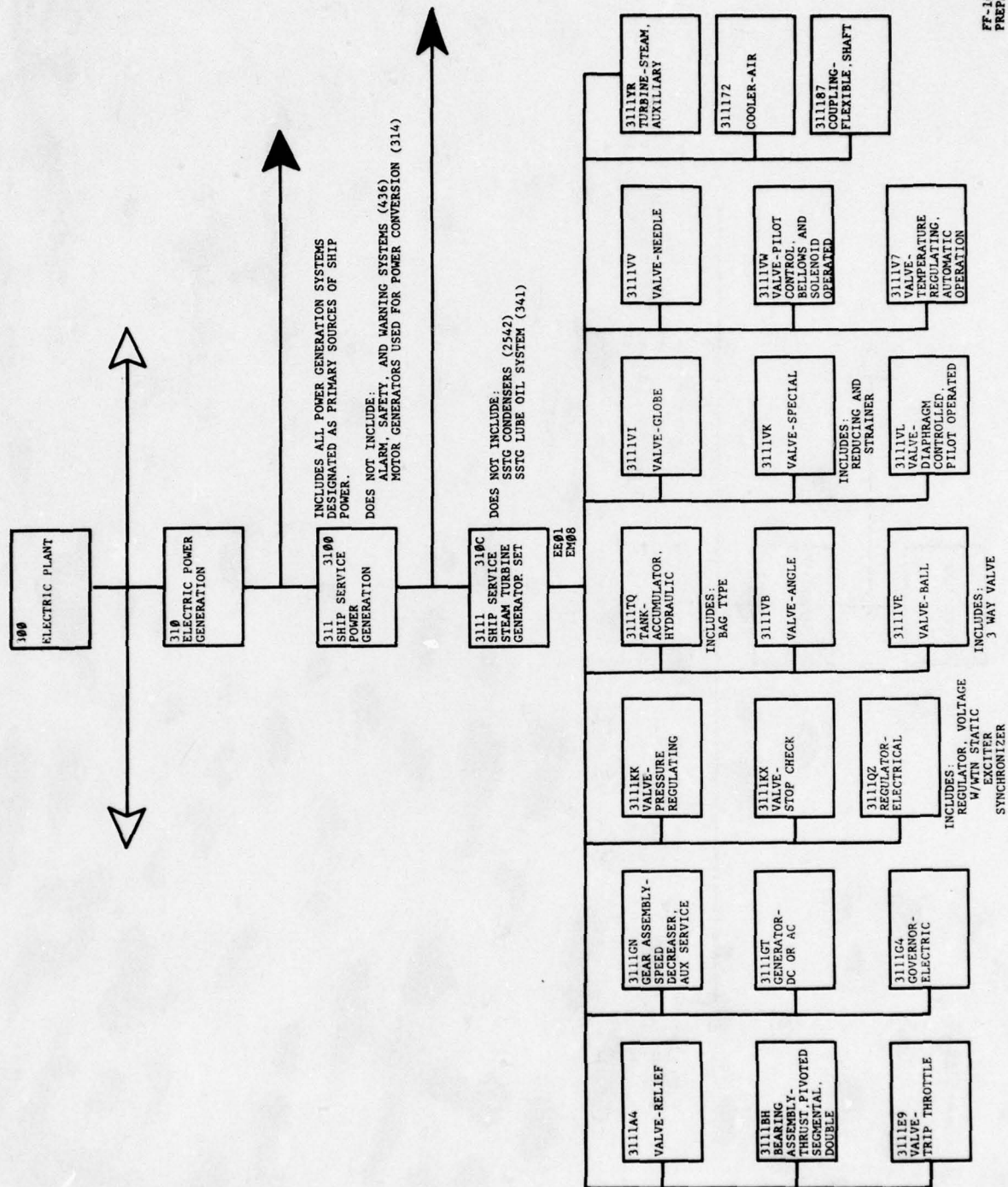
2 OF 3

AD

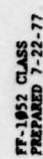
A050439

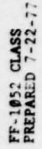






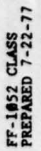
FF-1052 CLASS  
PREPARED 7-22-77

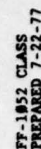








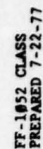






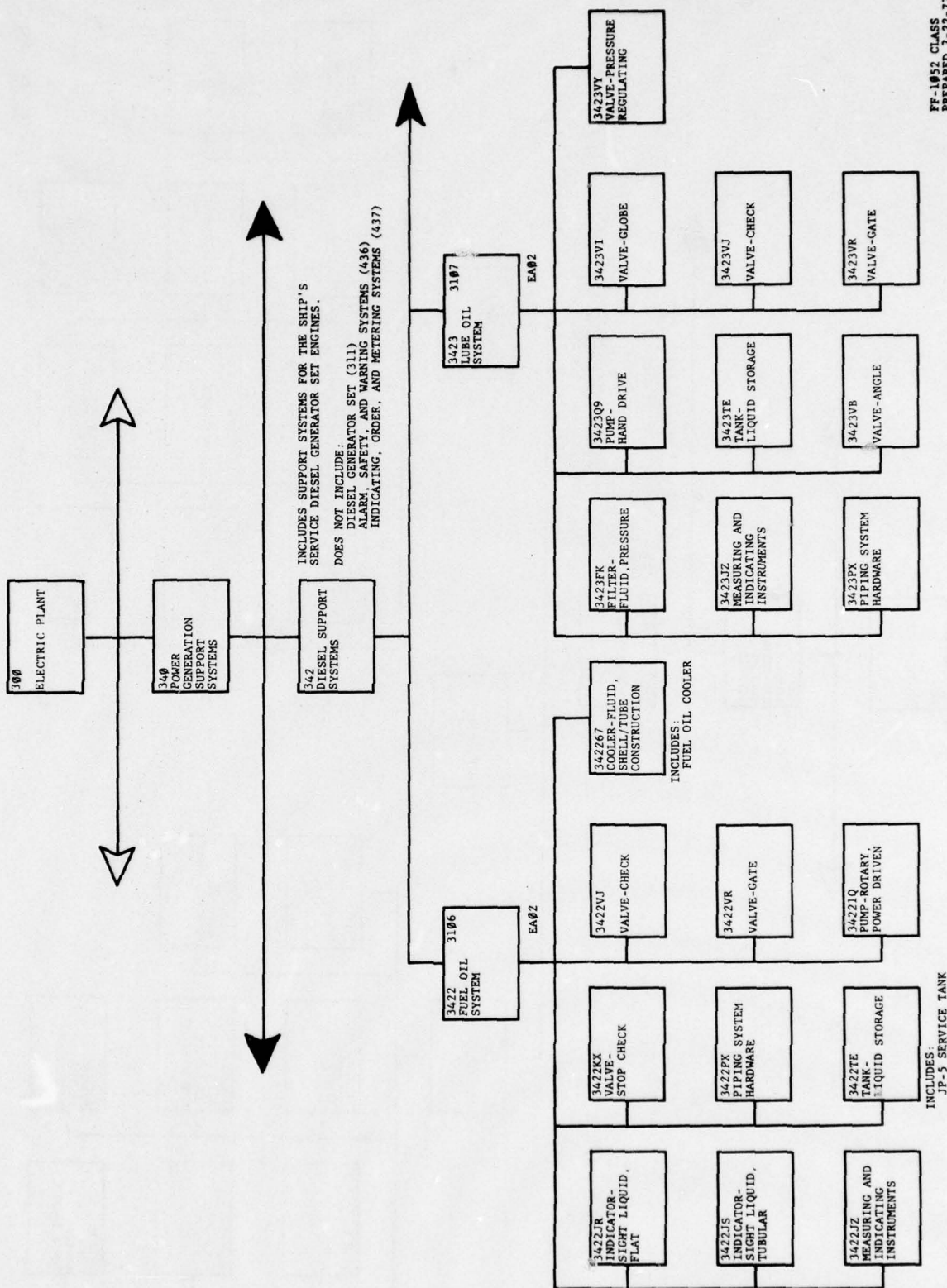








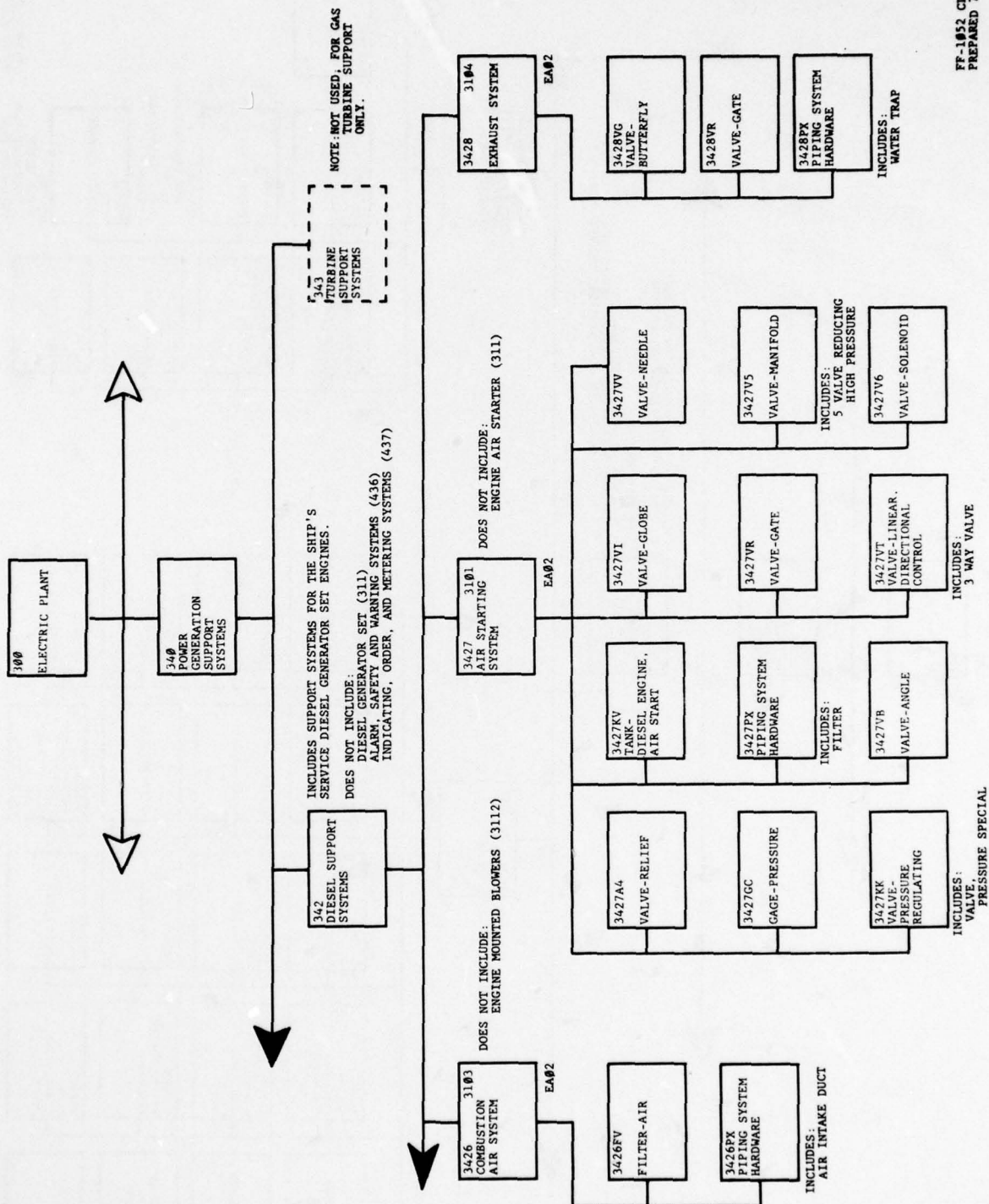


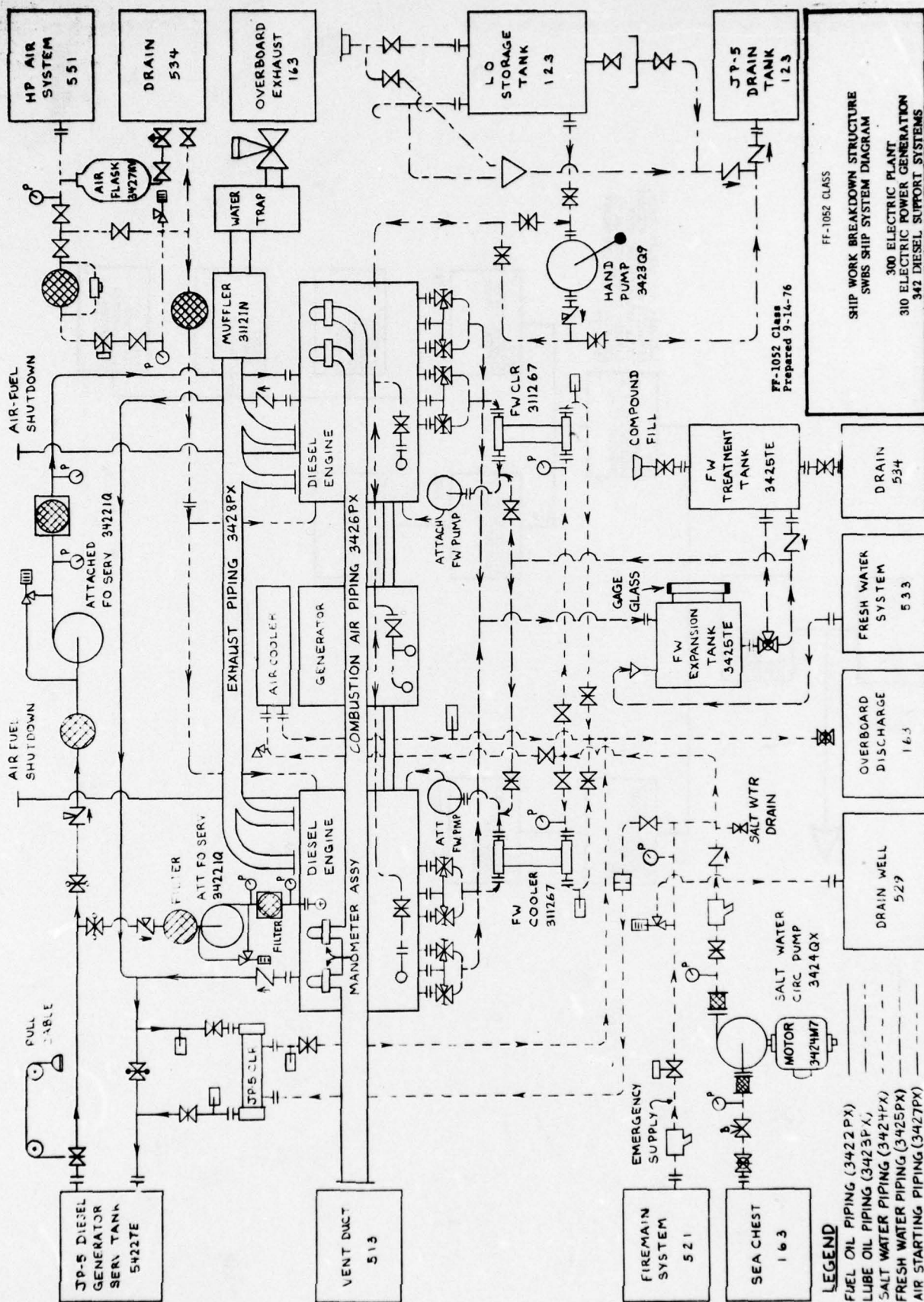


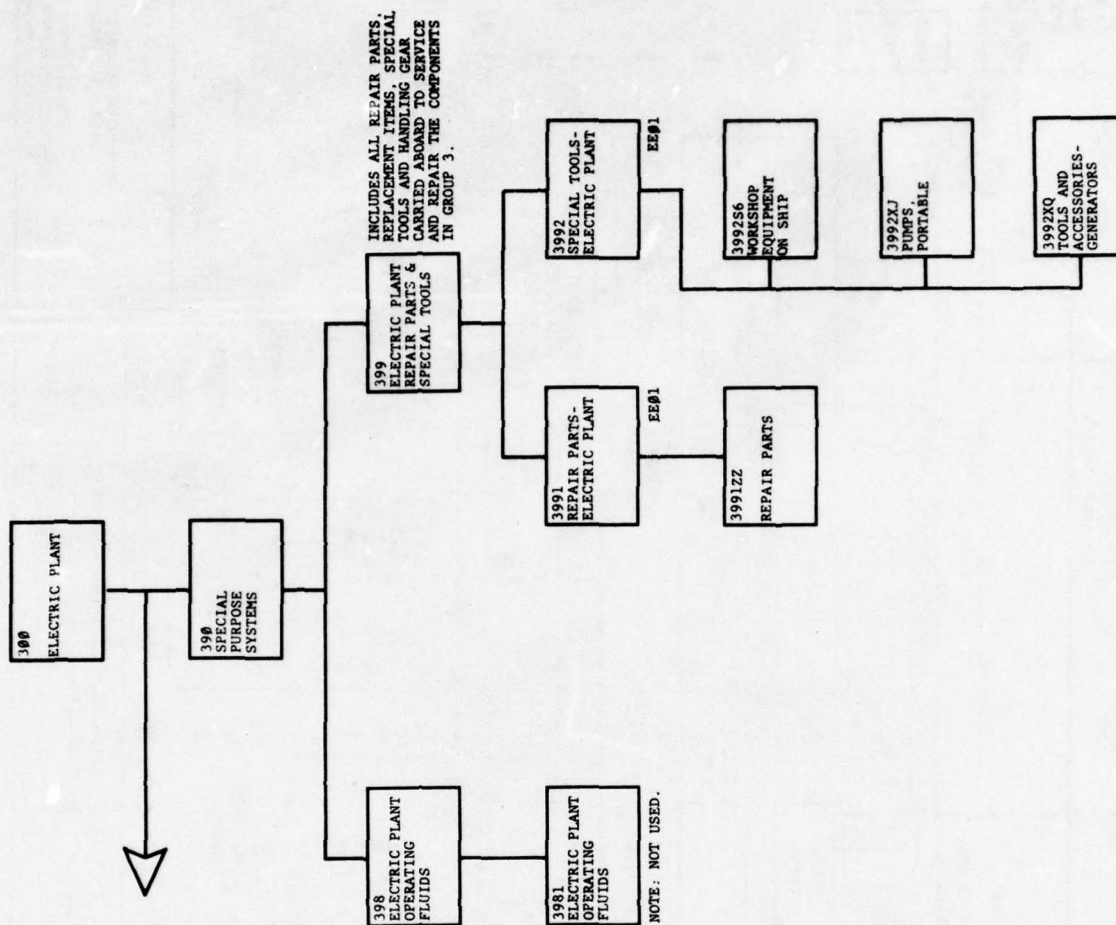
FF-1052 CLASS  
 PREPARED 7-22-77





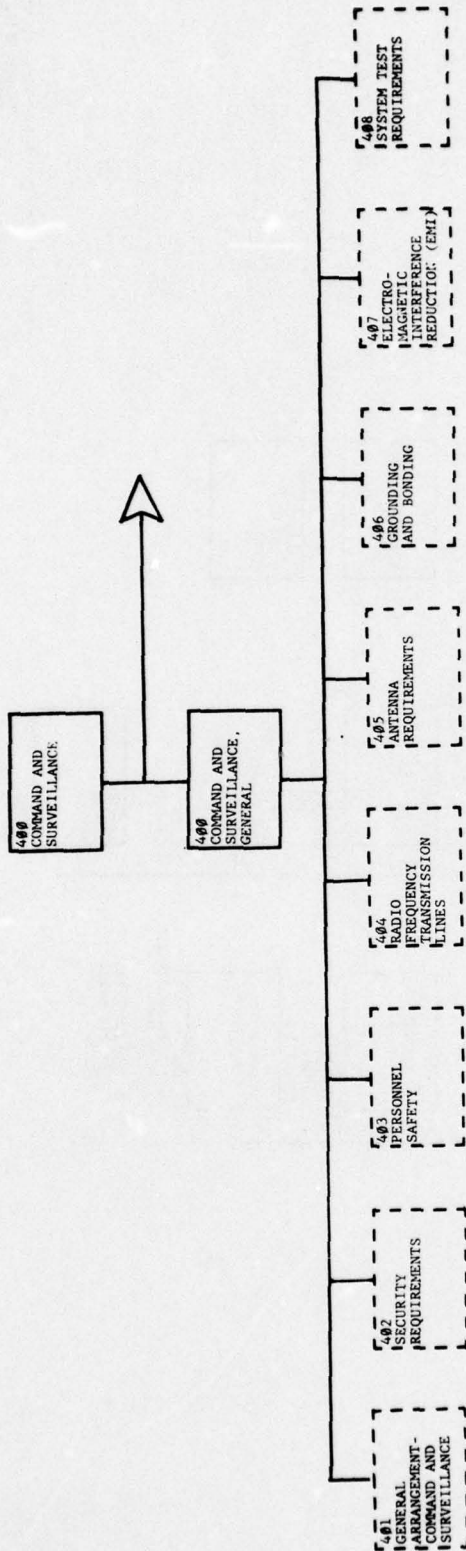


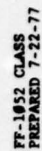


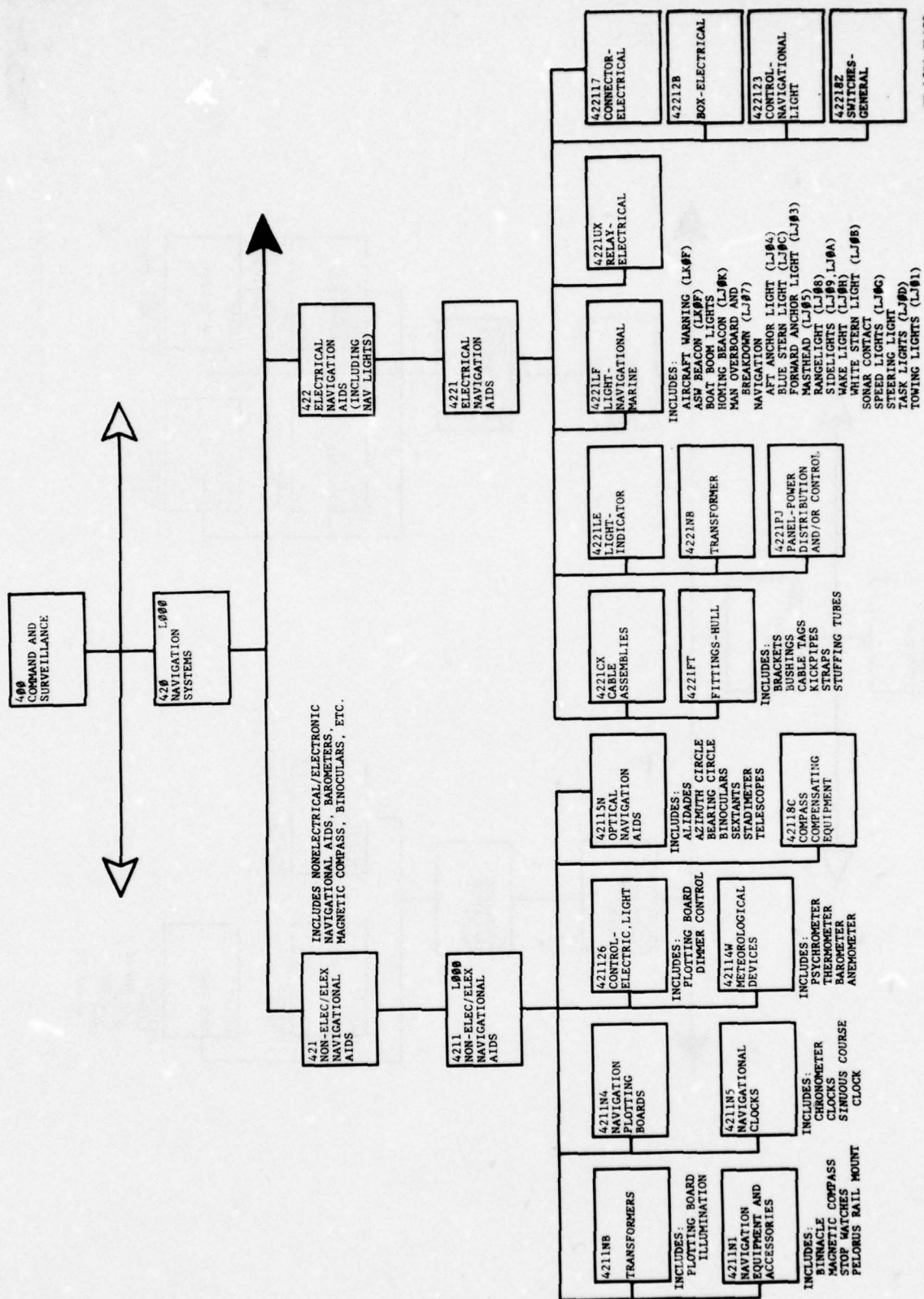


FF-1052 CLASS  
PREPARED 7-22-77



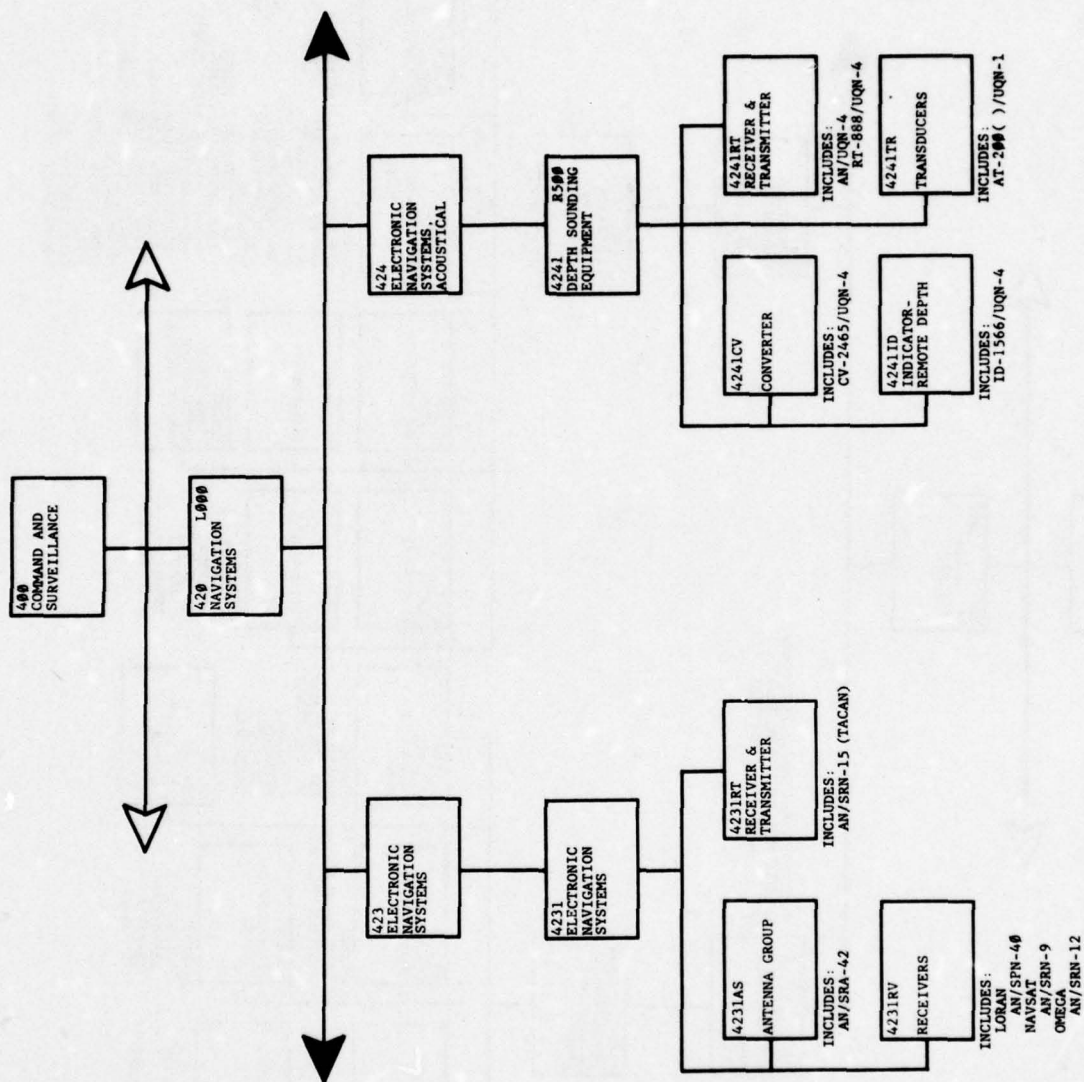


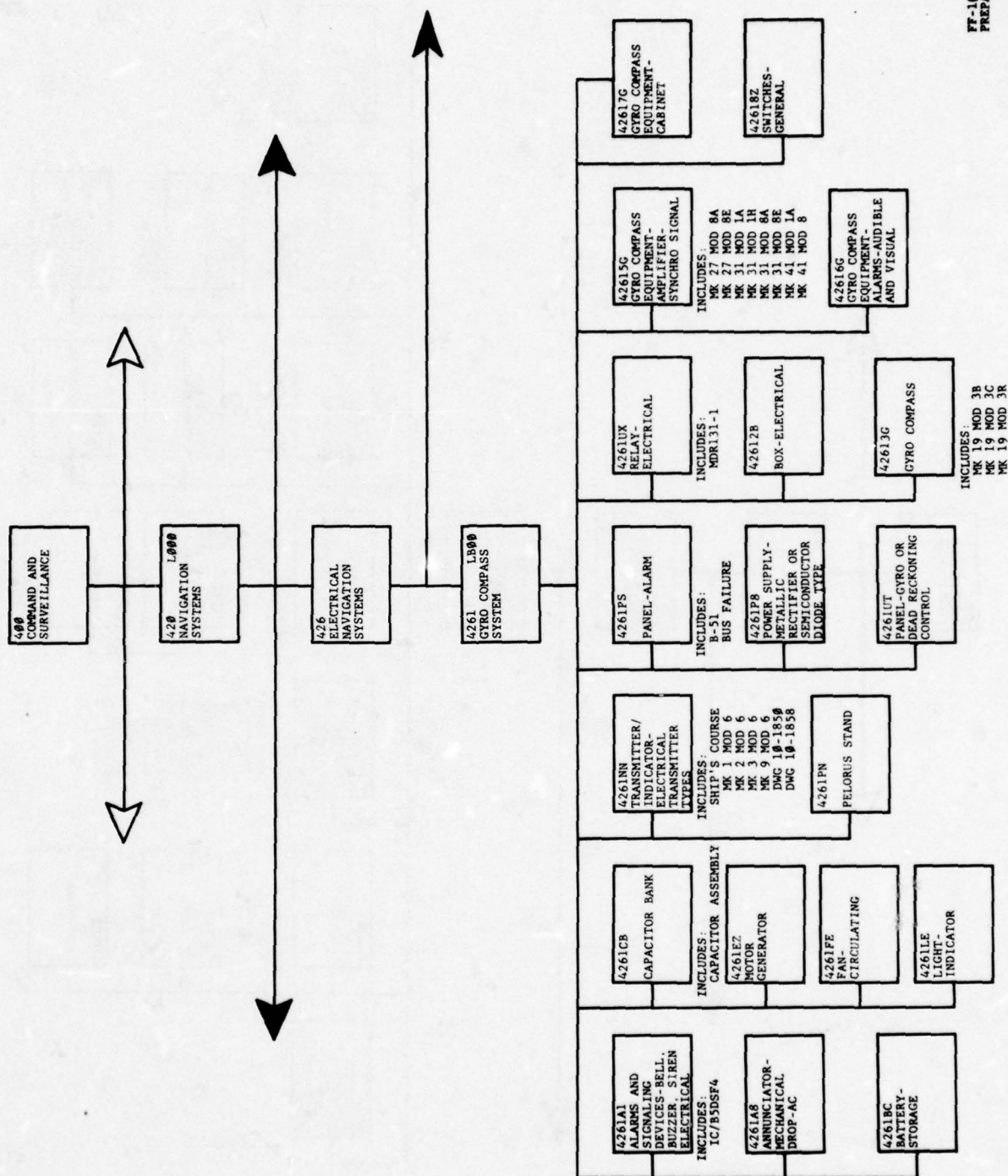


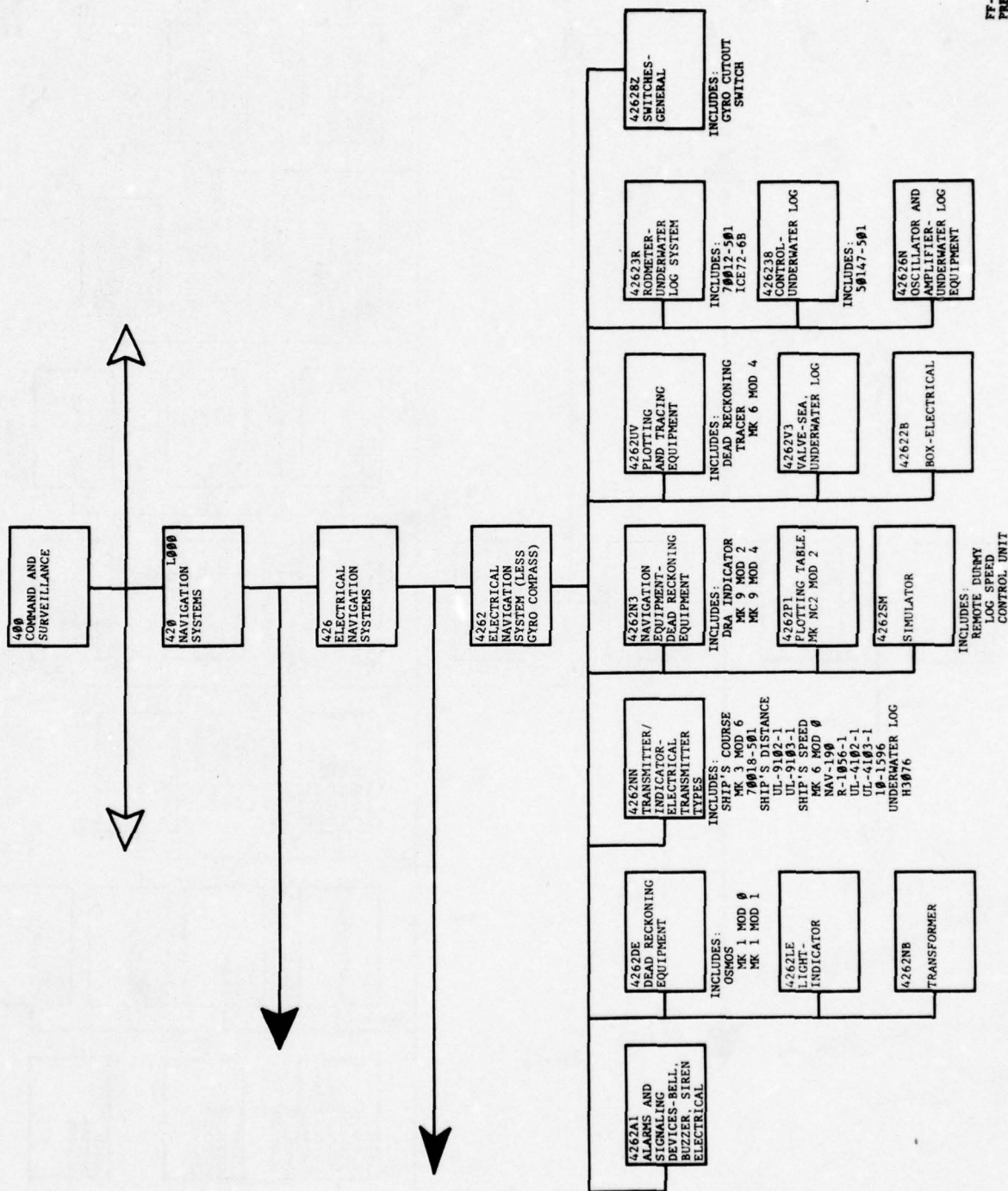


FT-1052 CLASS  
PREPARED 7-22-77

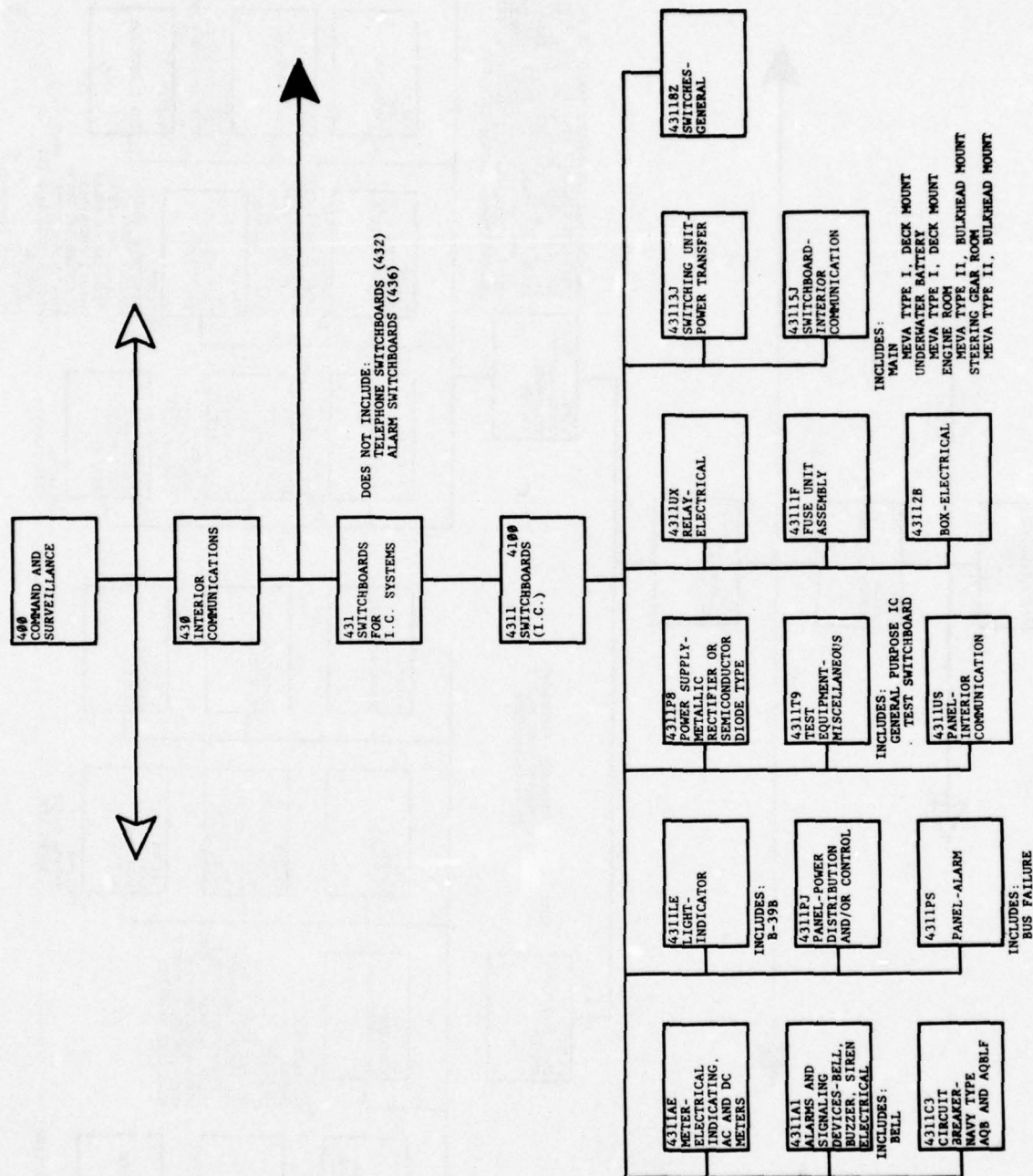




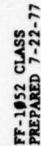


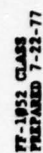




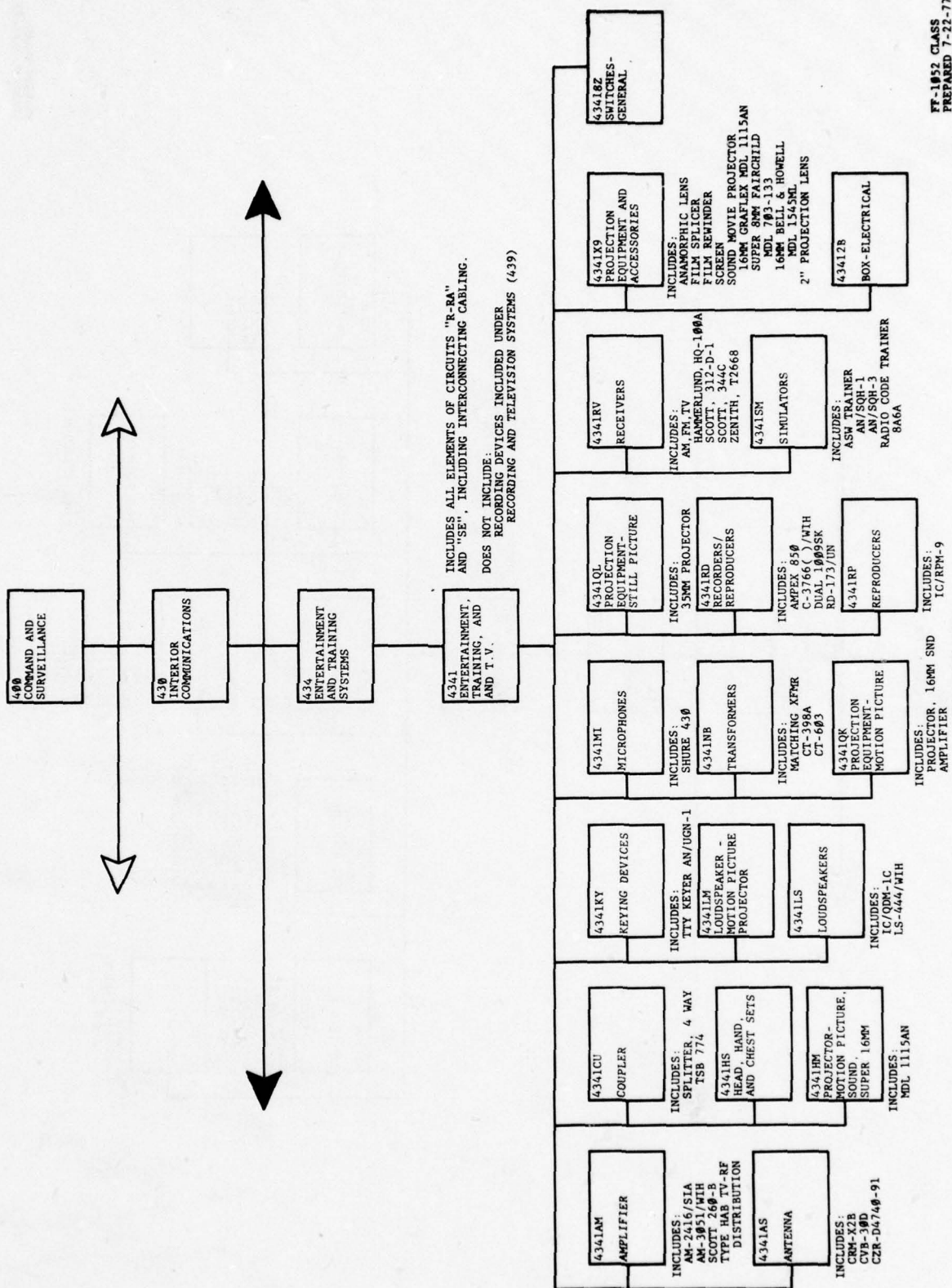


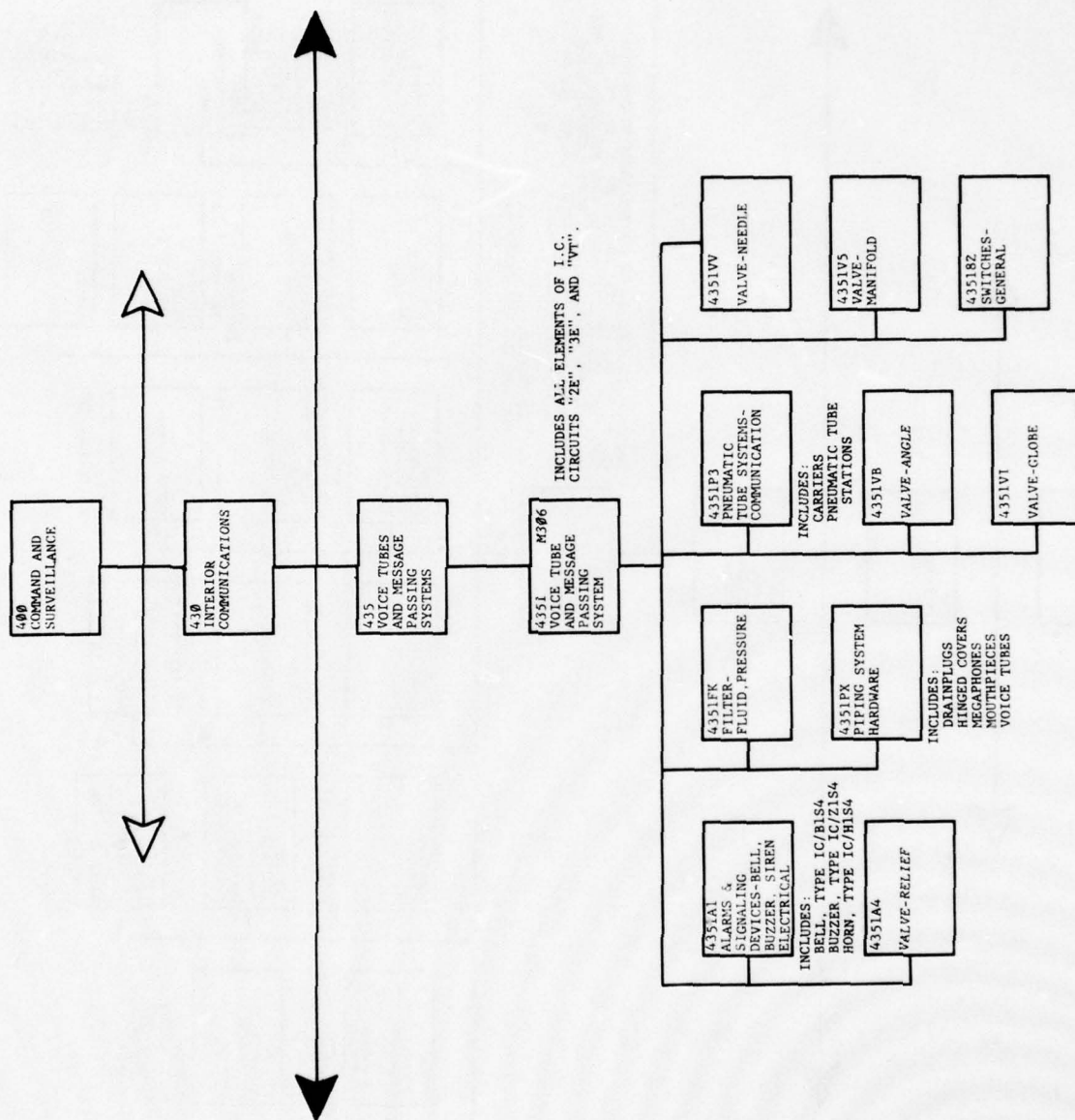
77-1052 CLASS  
PREPARED 7-22-77

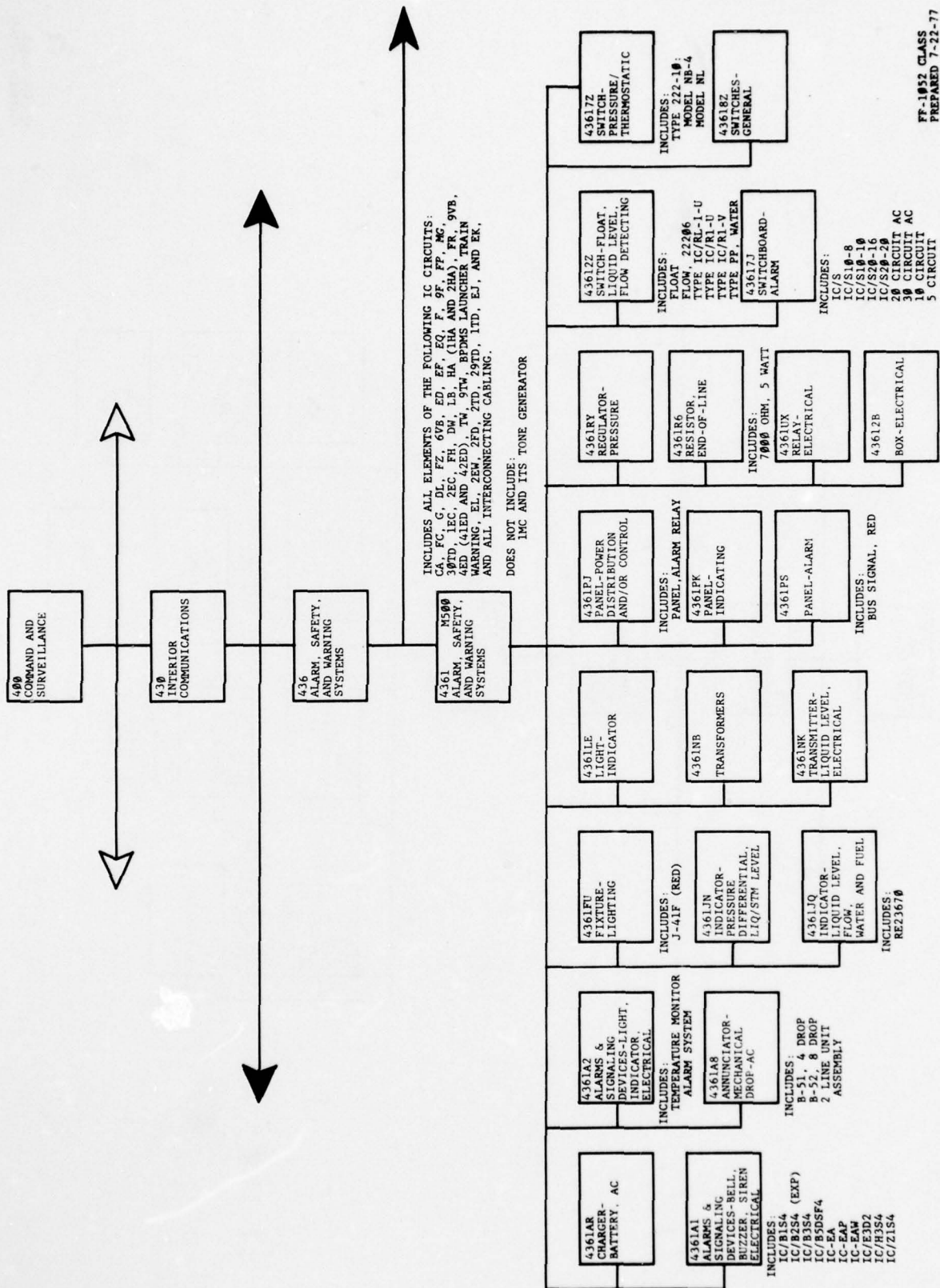






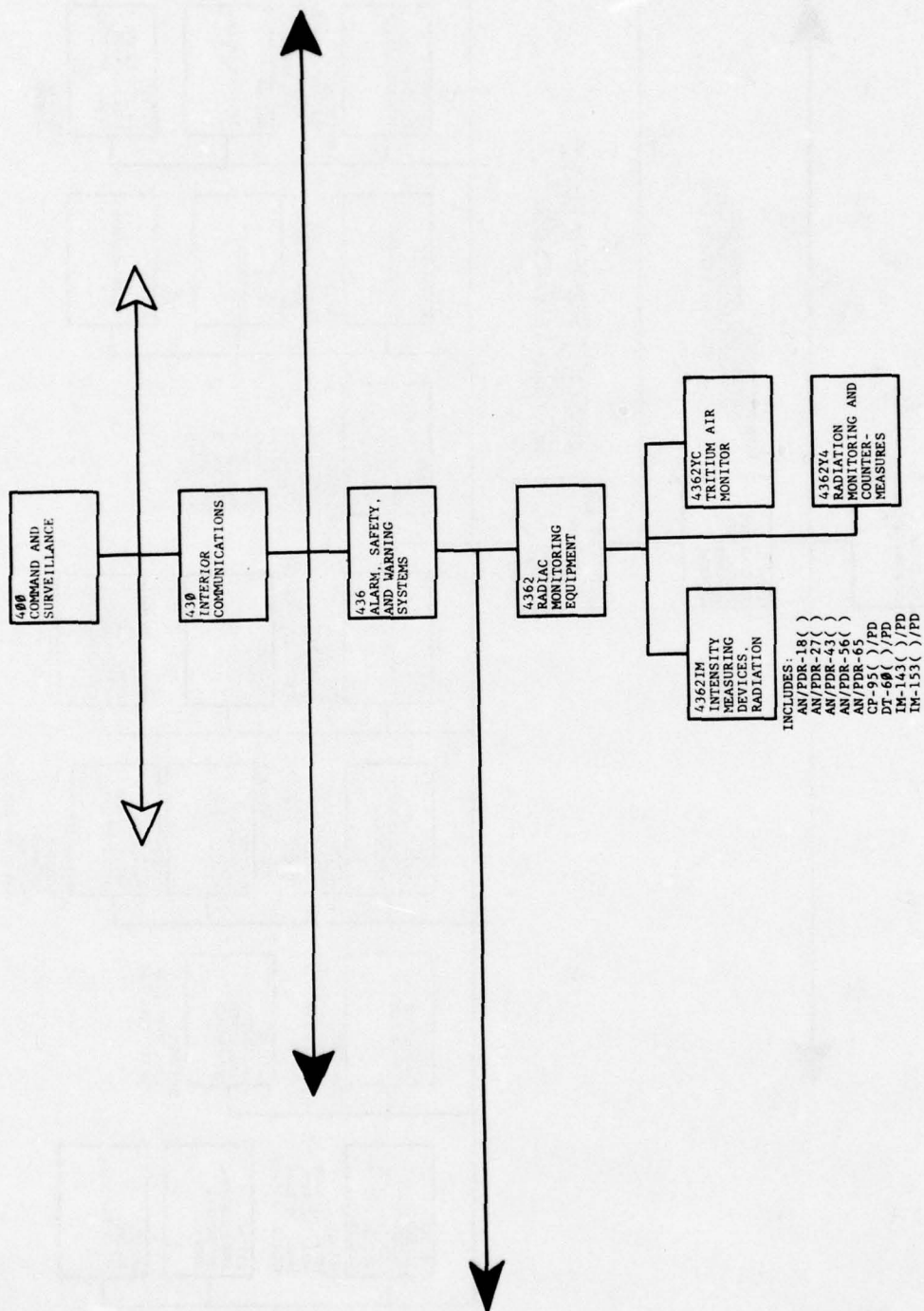


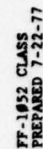


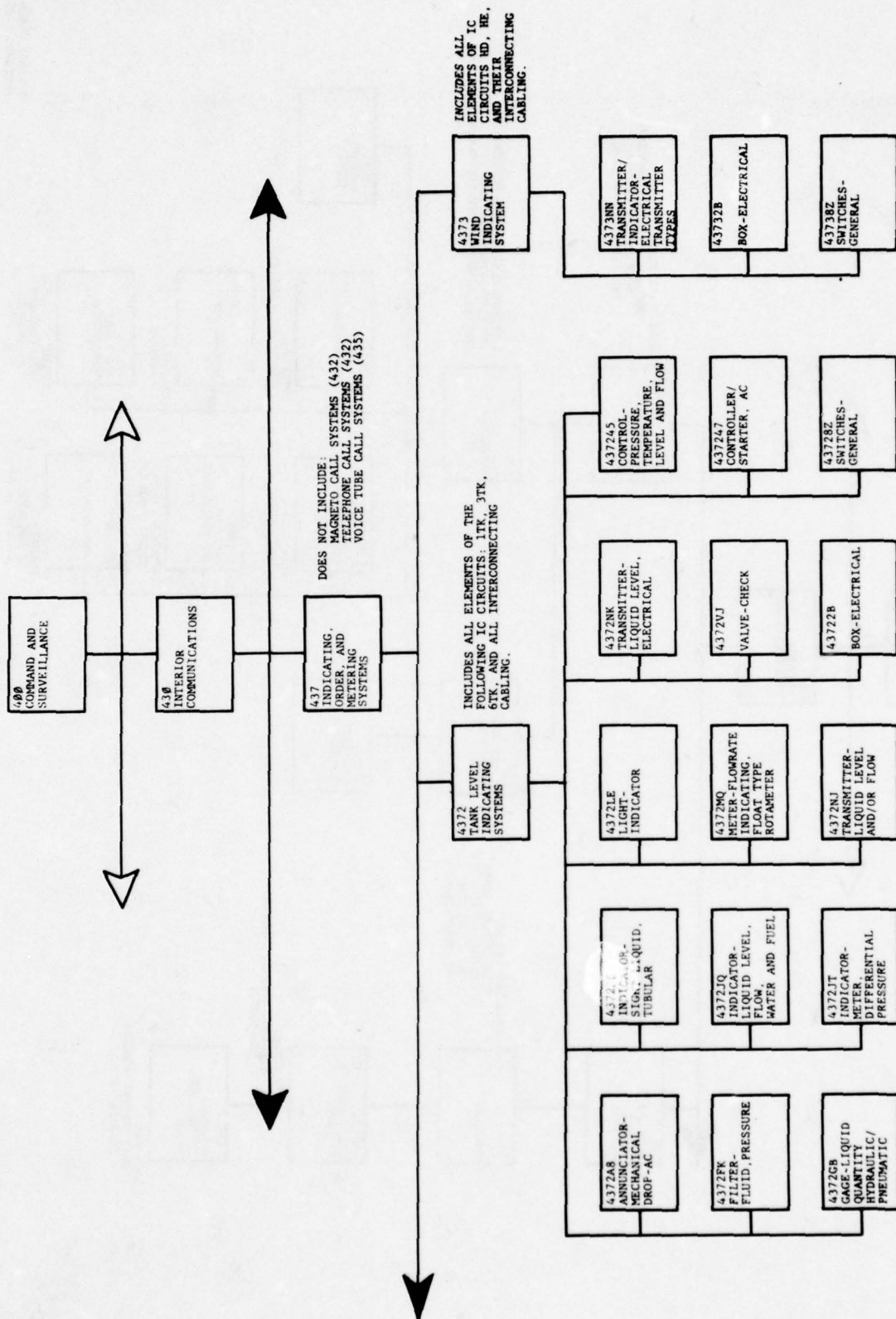


FF-1052 CLASS  
PREPARED 7-21-77

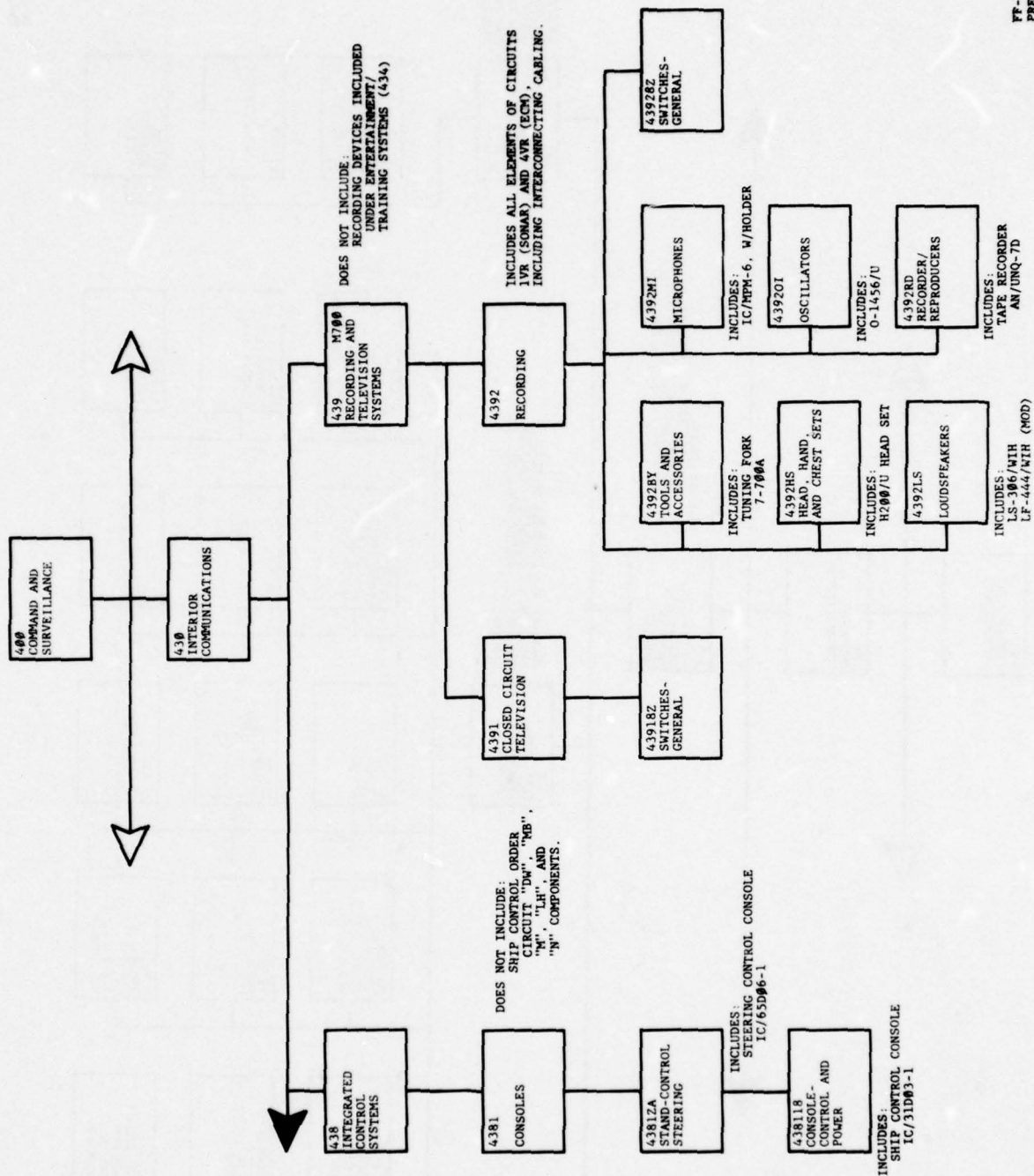


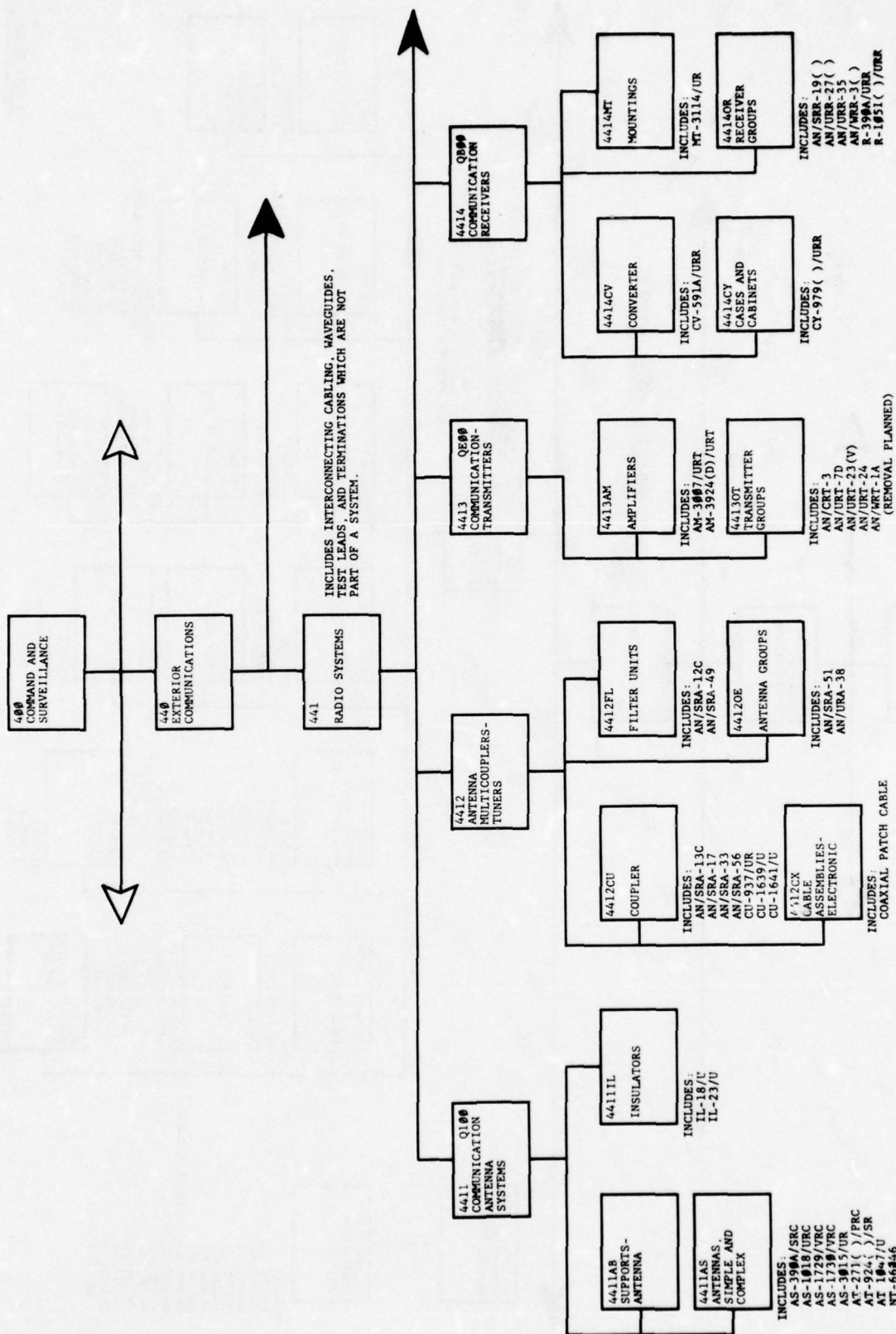




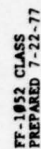




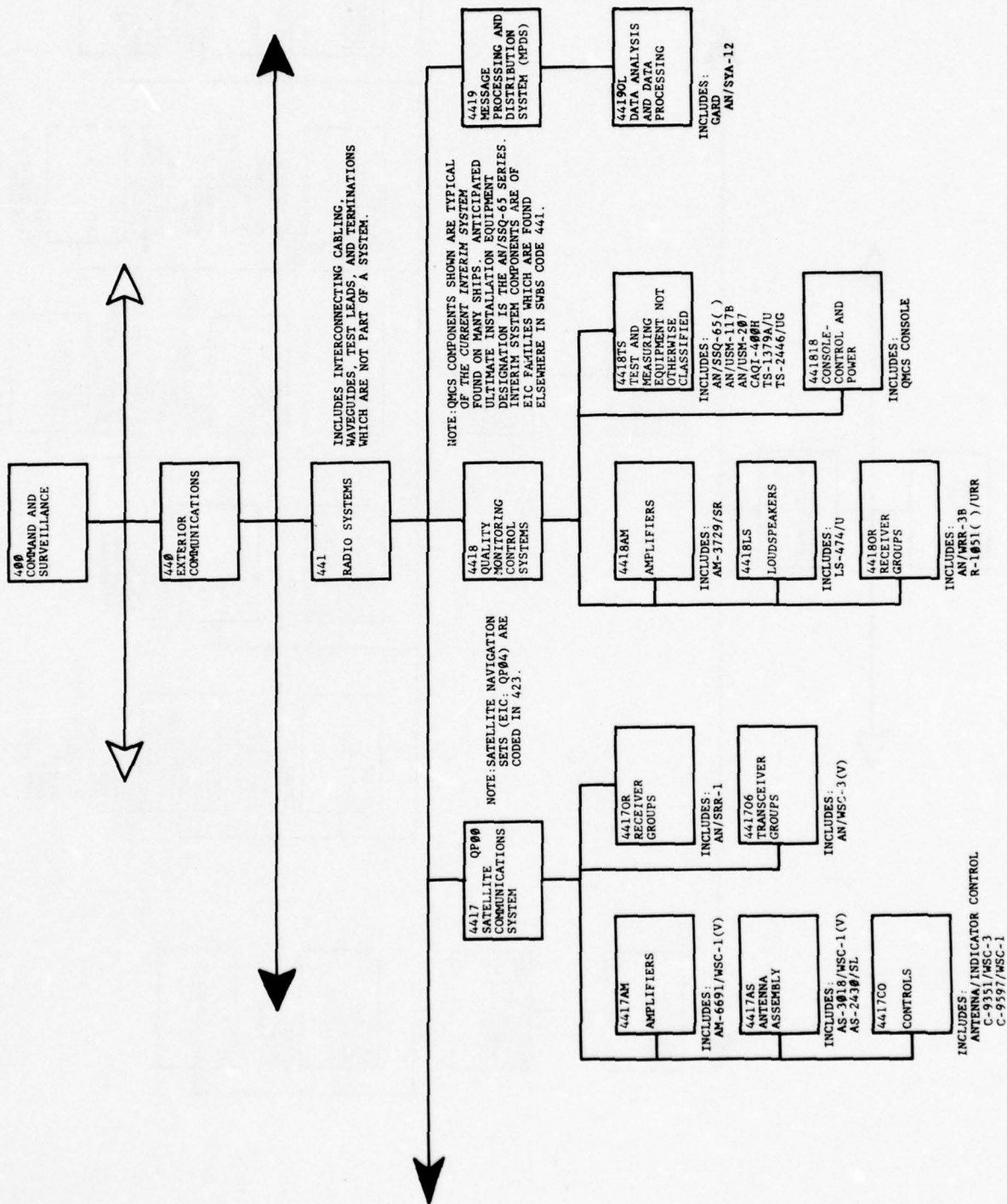


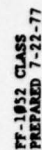


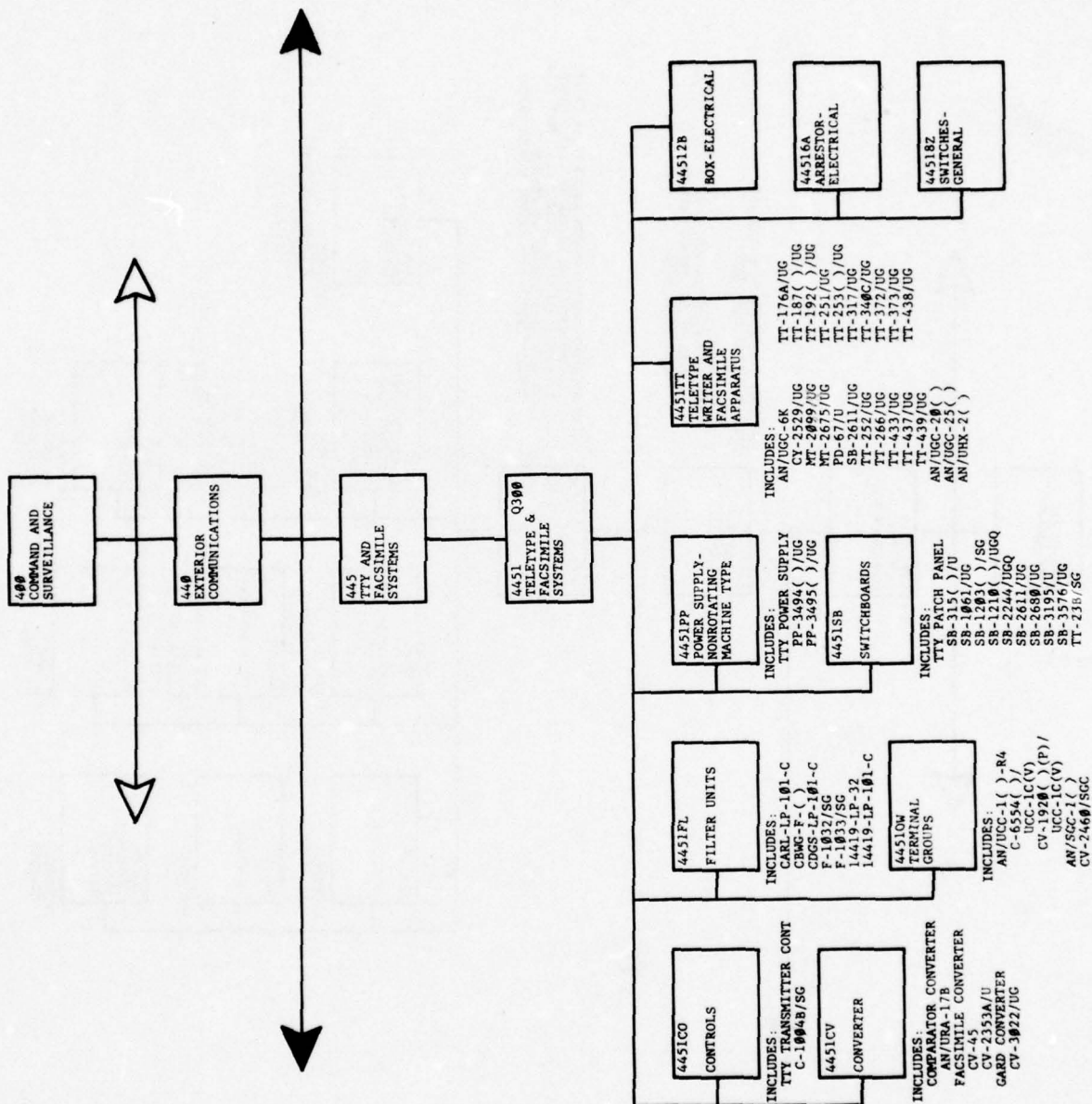
FF-1052 CLASS  
PREPARED 7-22-77





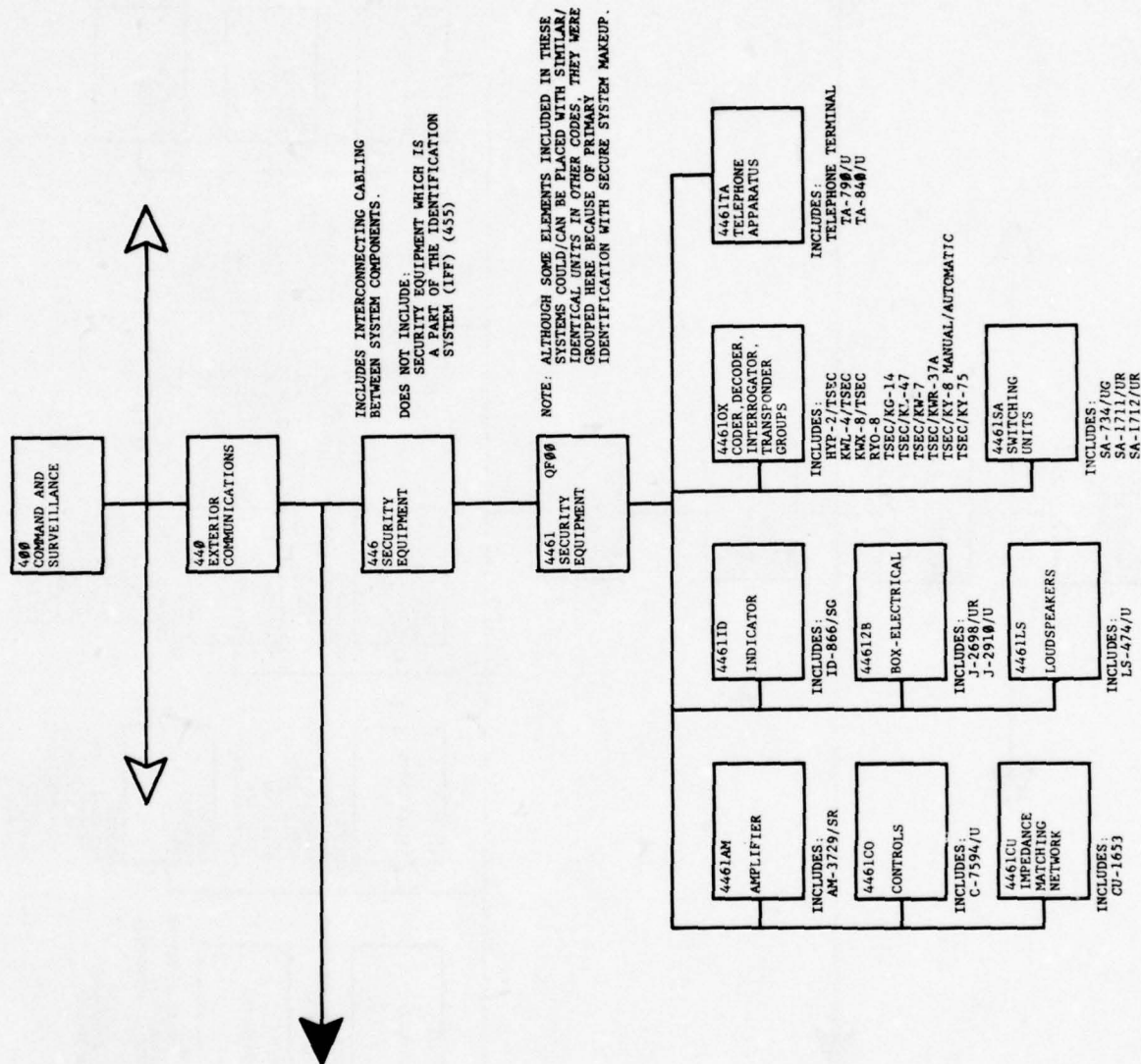




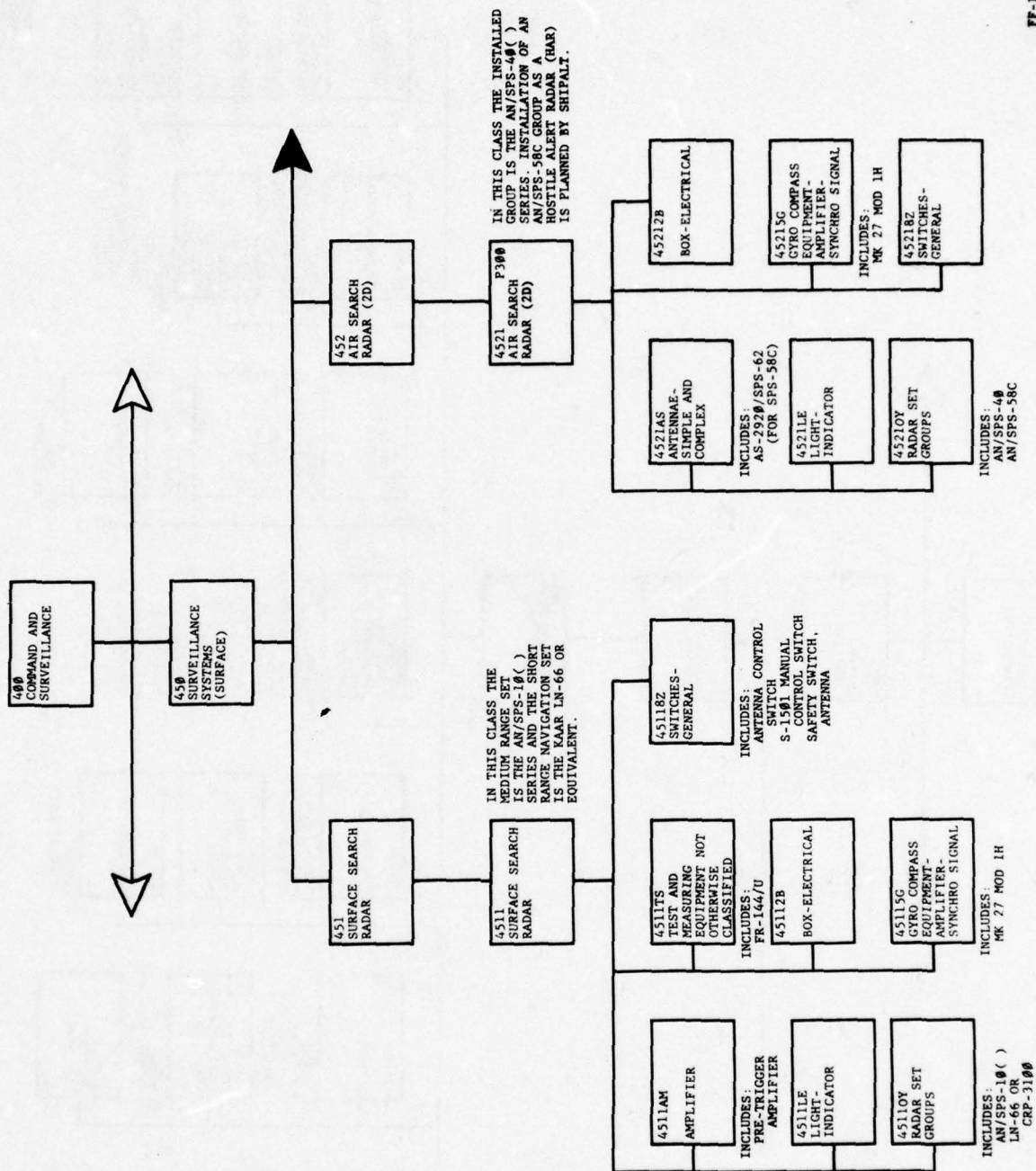


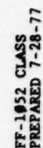
TT-1052 CLASS  
PREPARED 7-22-77



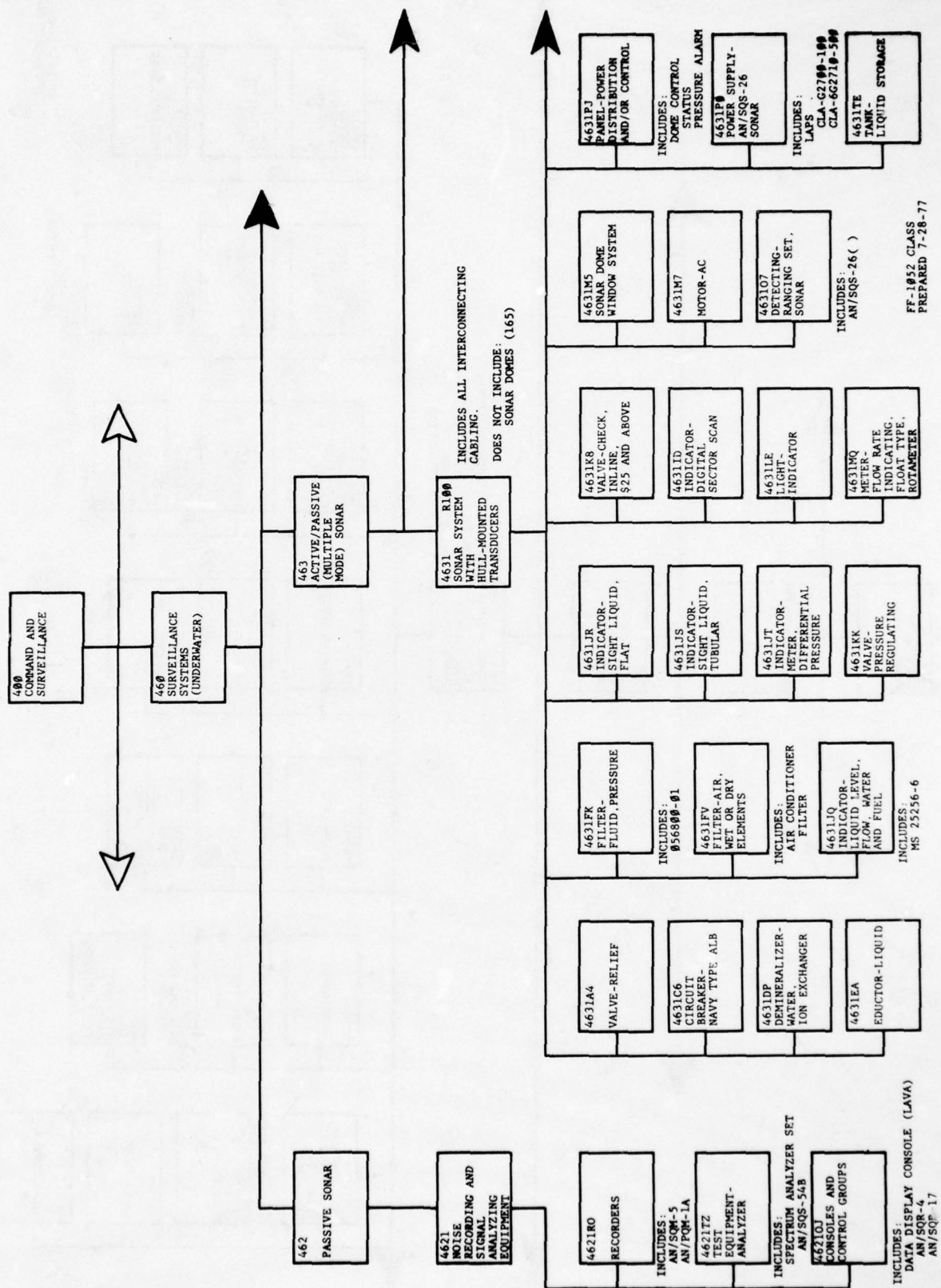


FF-1052 CLASS  
PREPARED 7-28-77

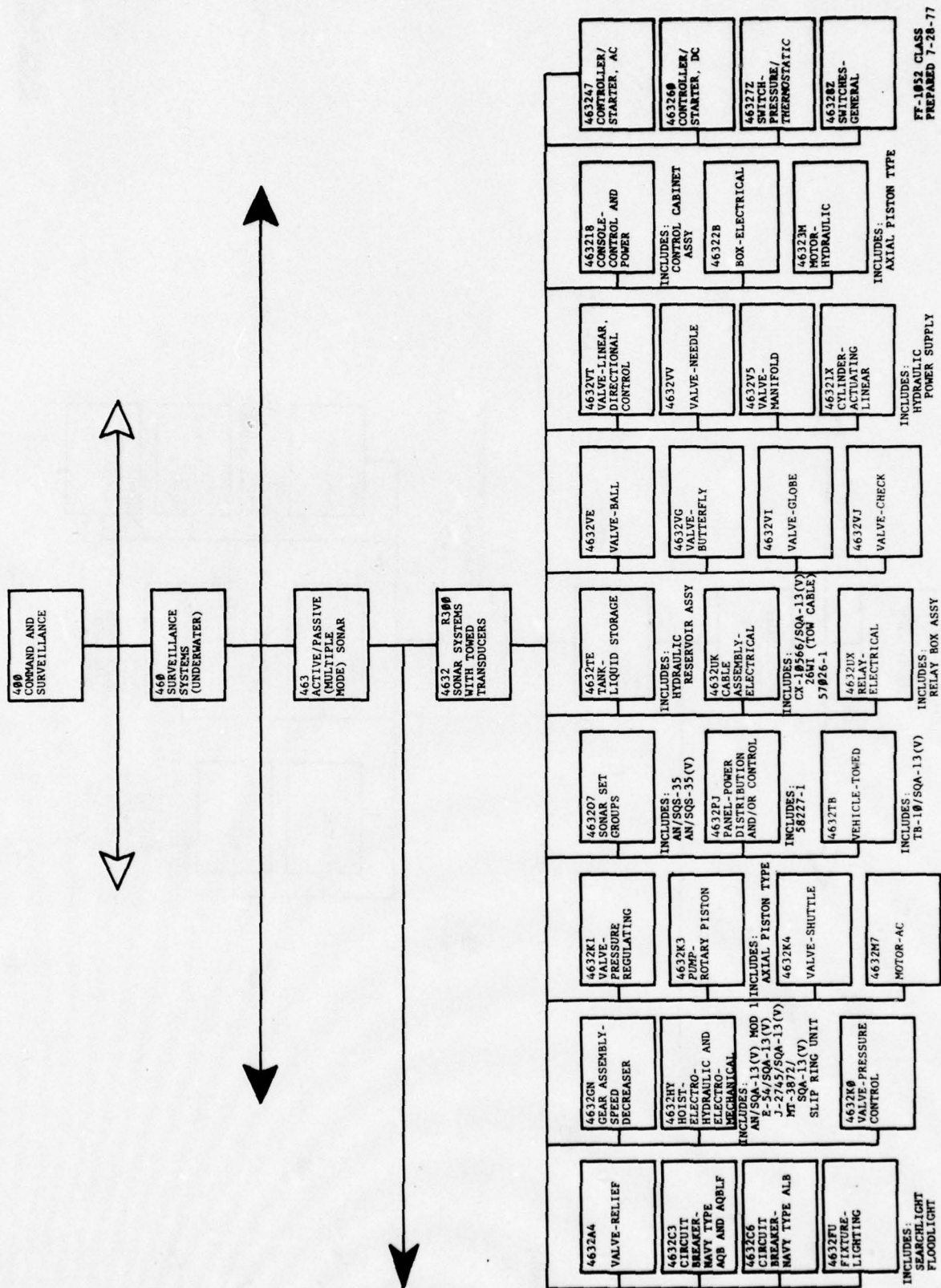




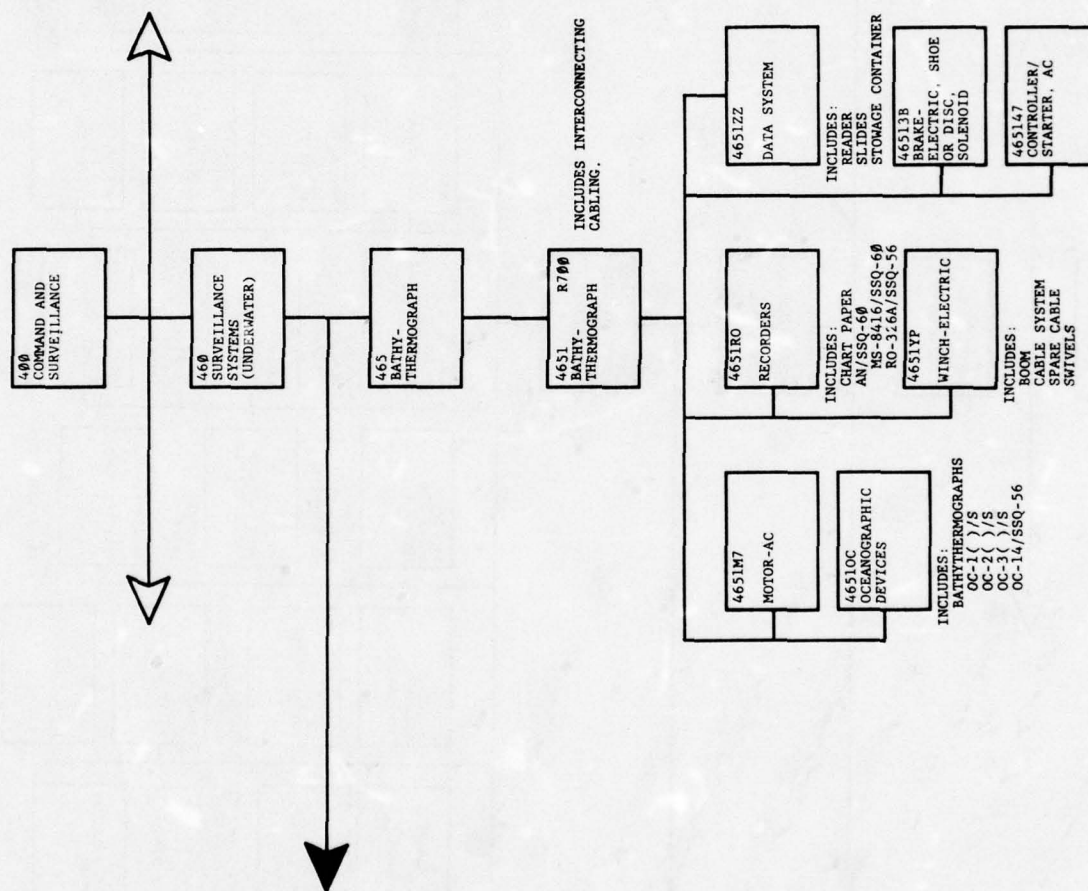


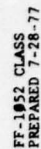


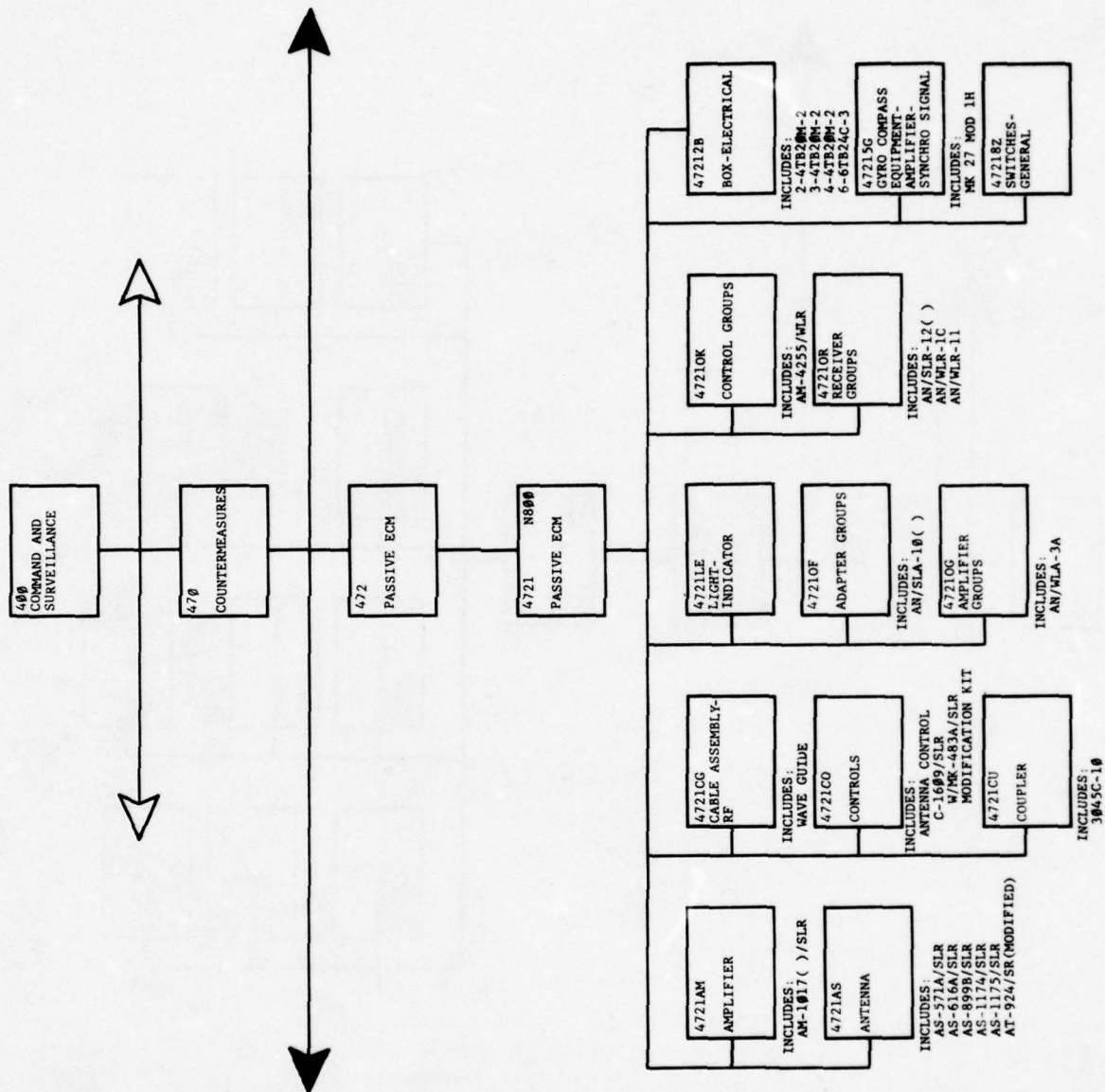










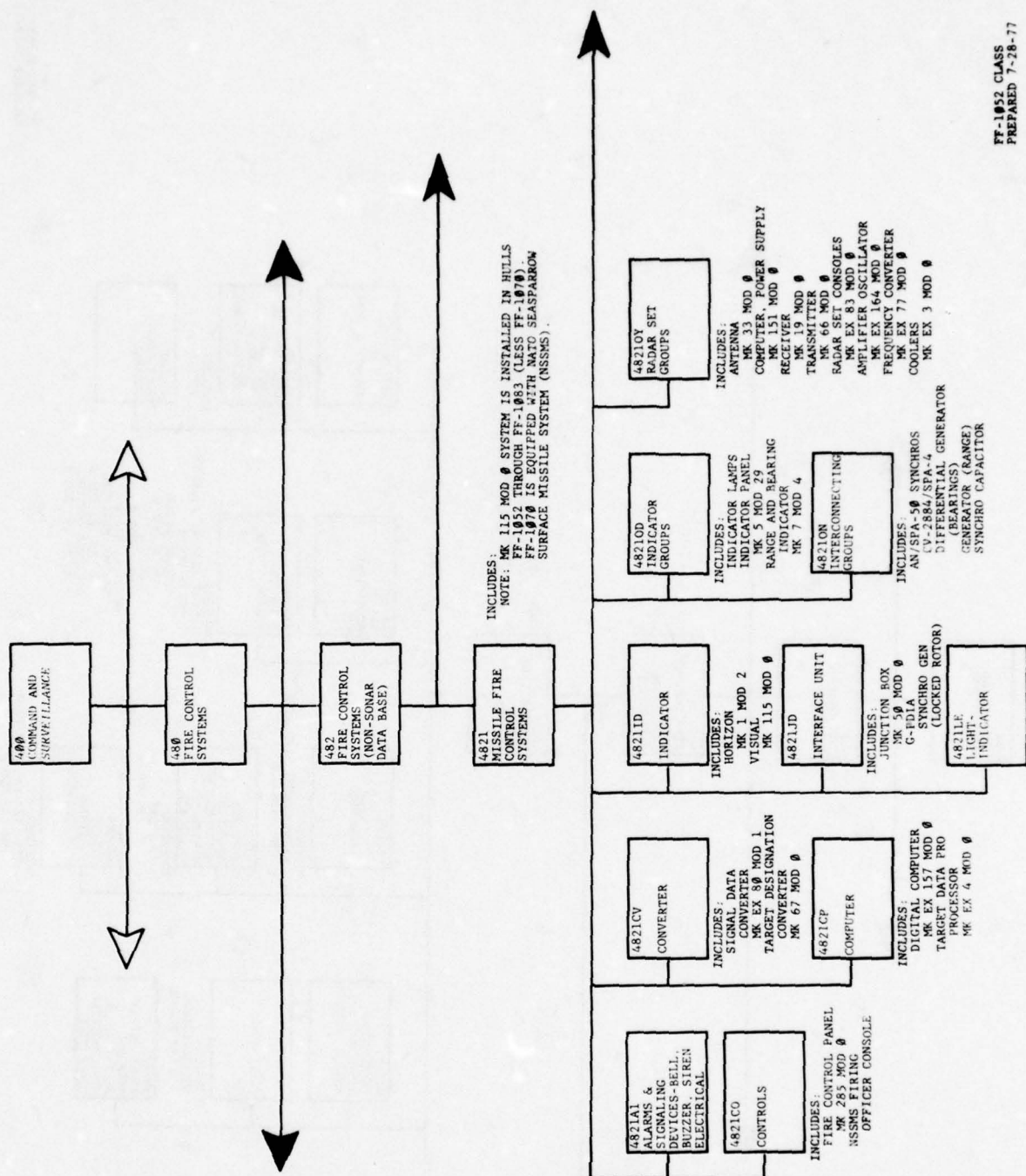


FF-1052 CLASS  
PREPARED 7-28-77

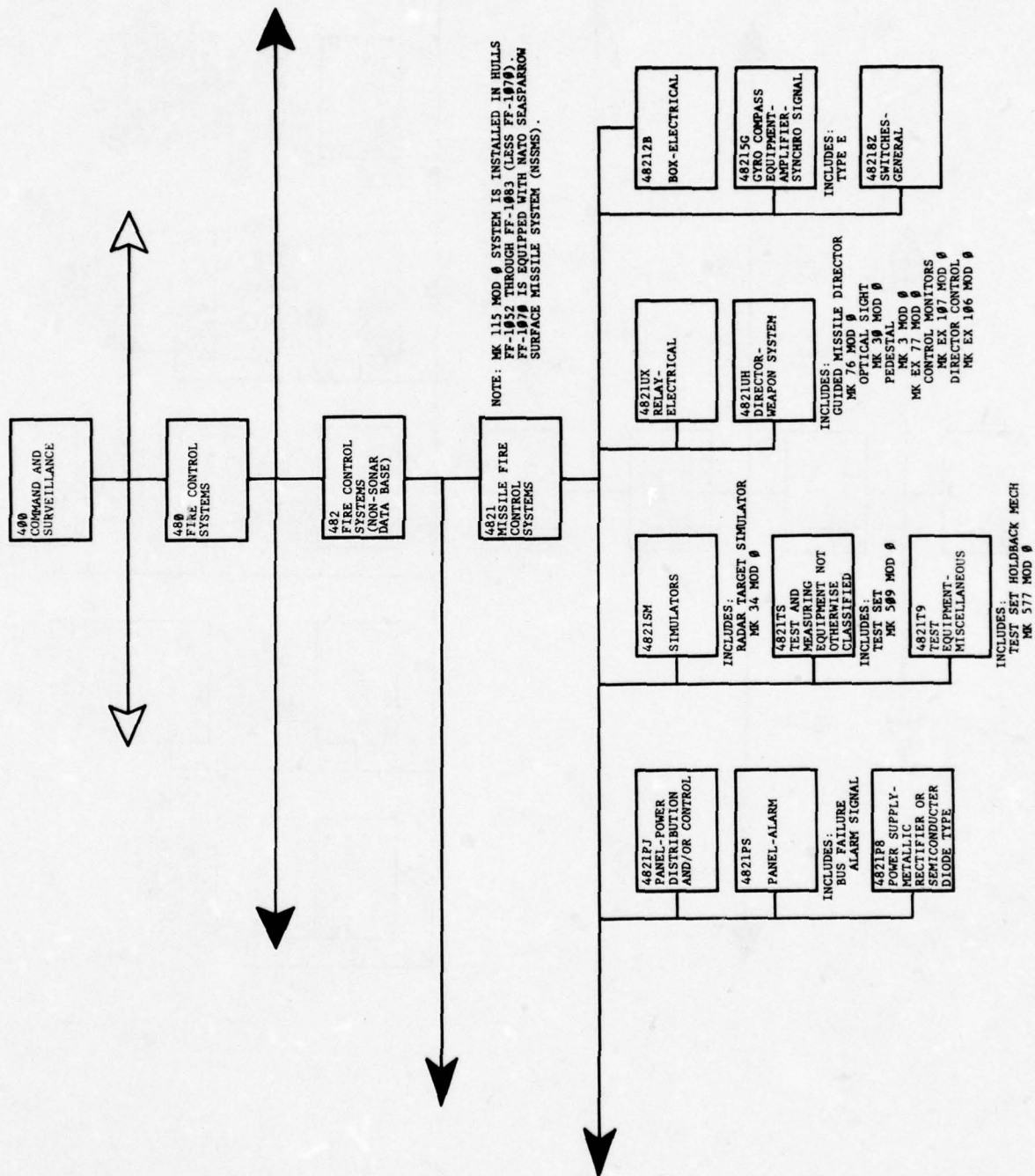




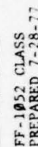


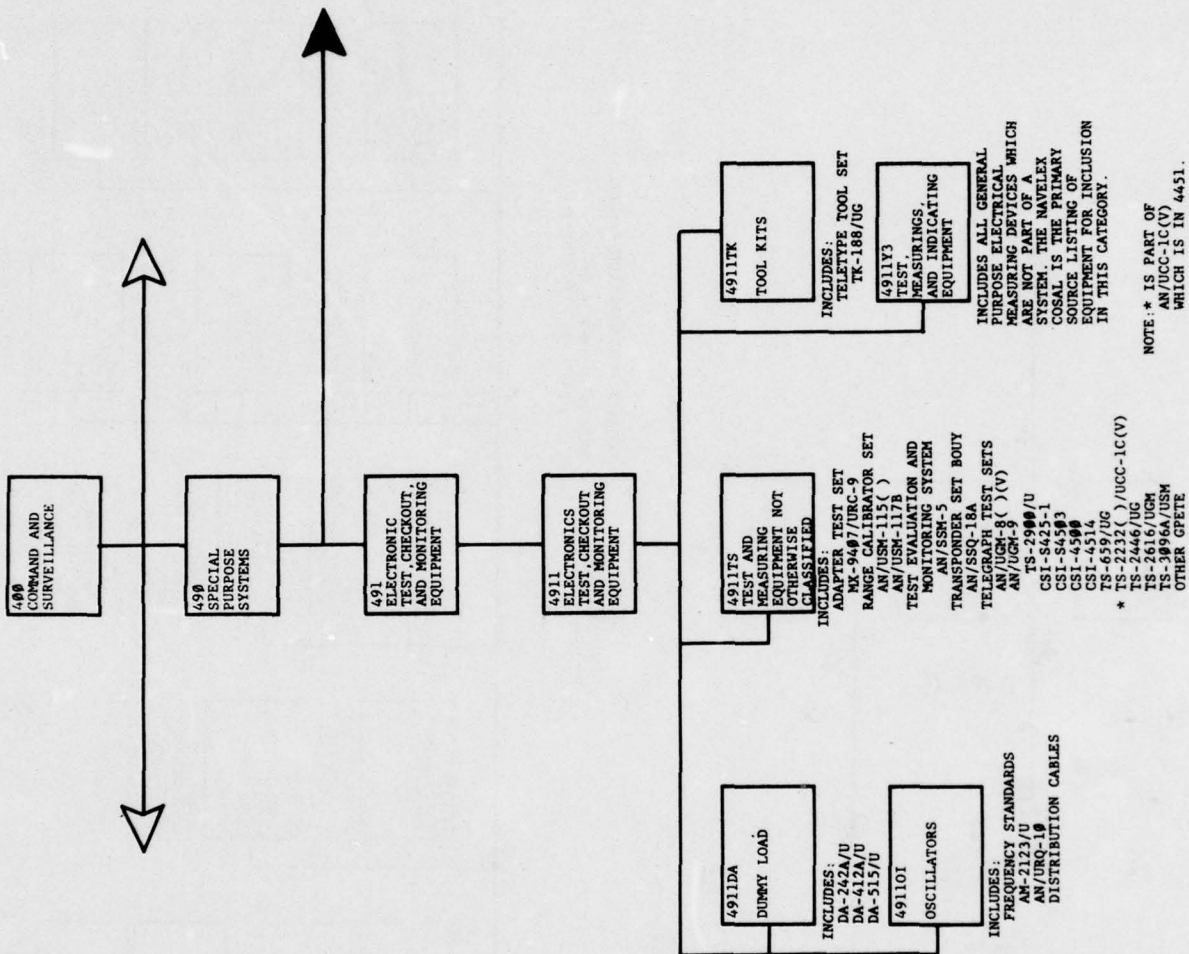






FF-1052 CLASS  
PREPARED 7-28-77

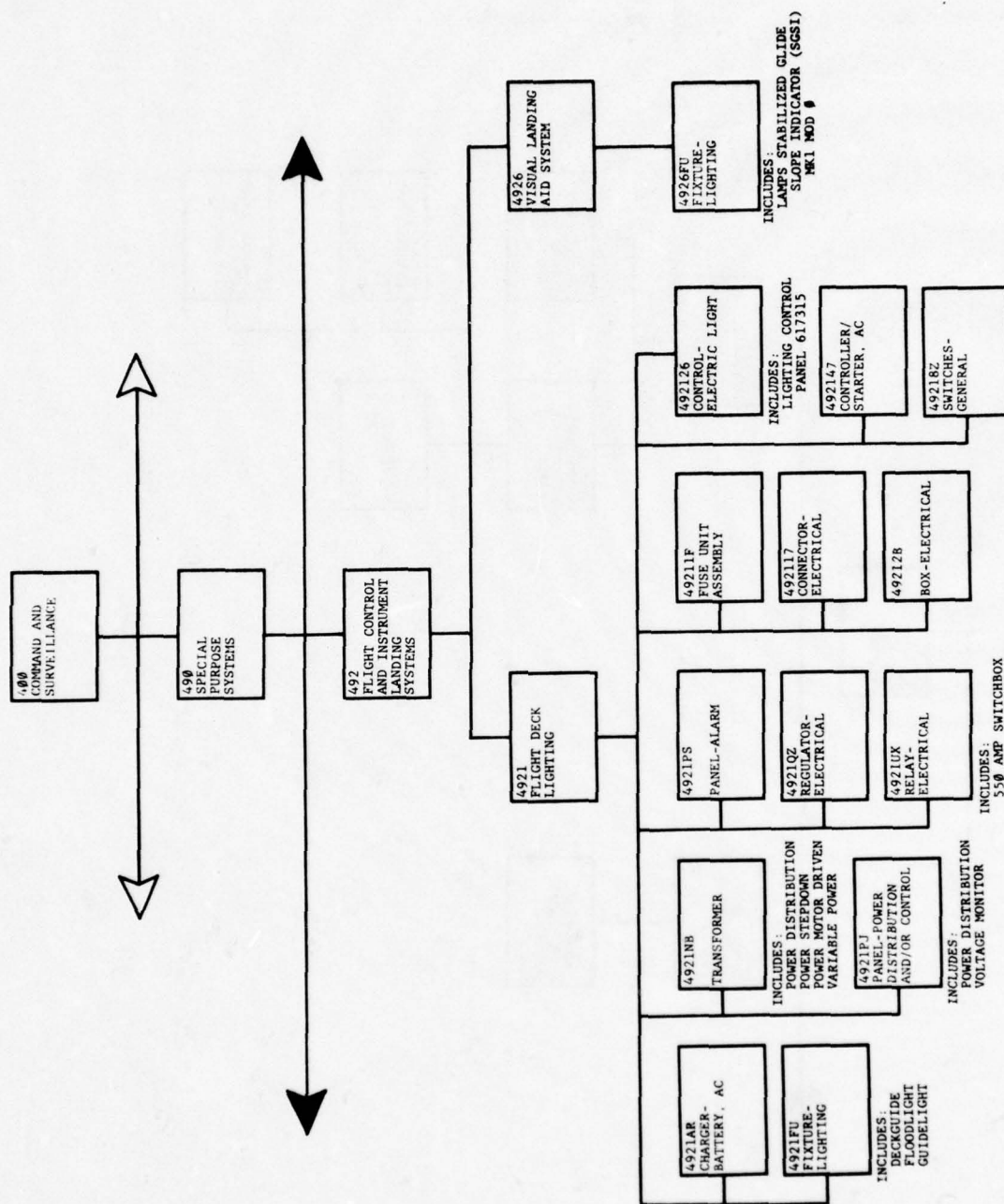


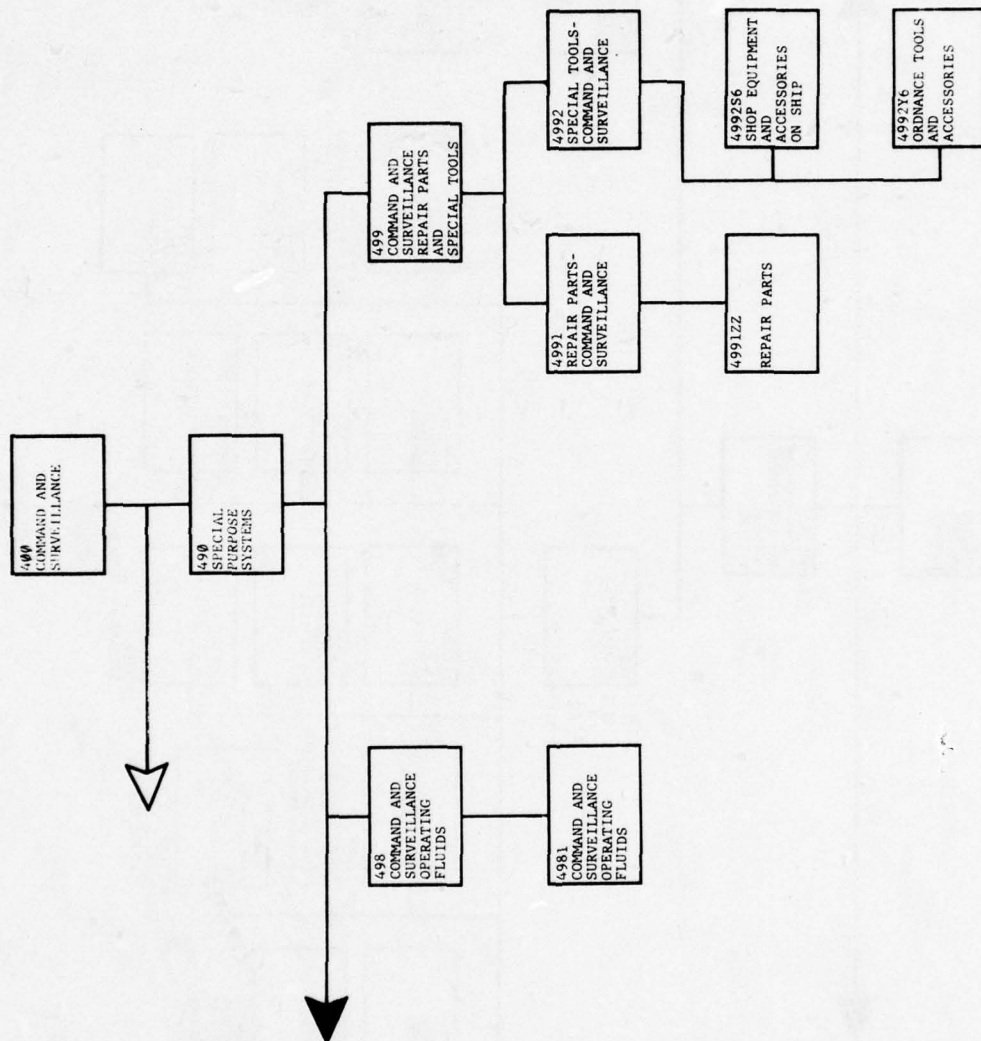


77-1052 CLASS  
PREPARED 7-28-77

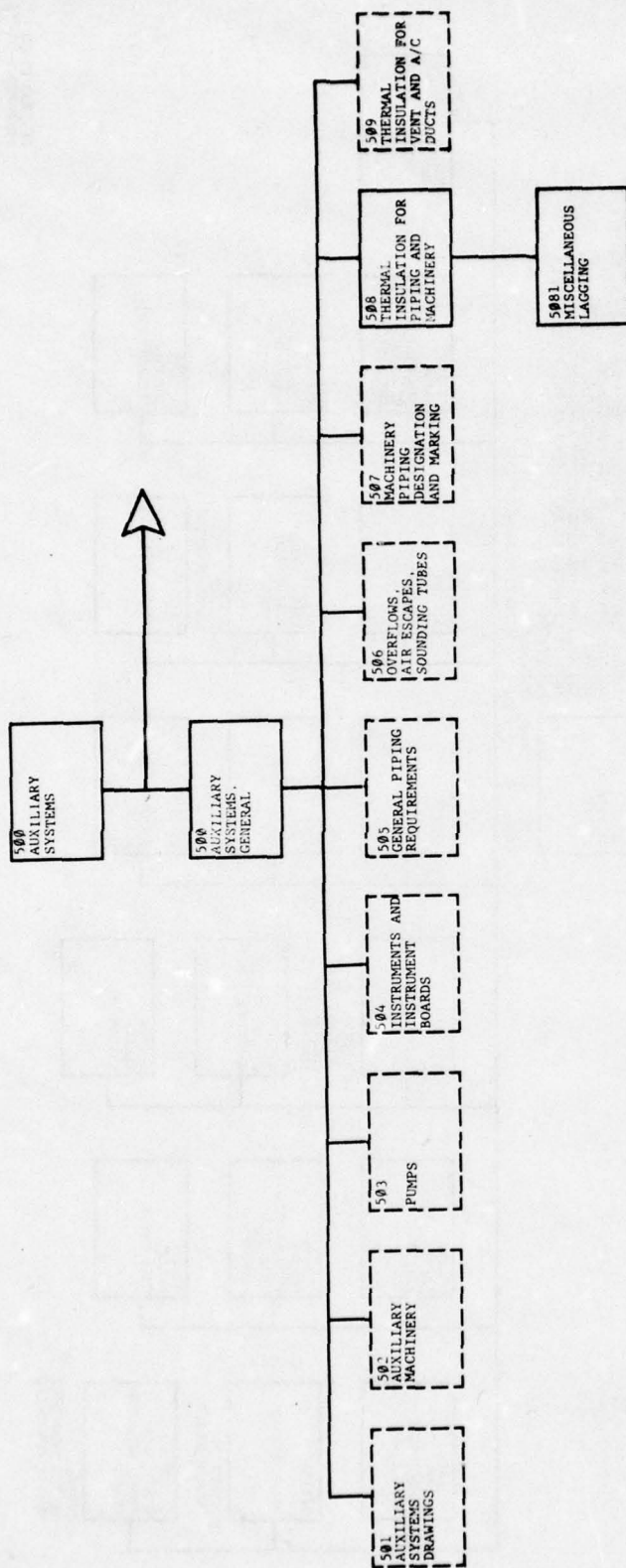
NOTE: \* IS PART OF  
AN/UCC-1C(V)  
WHICH IS IN 4451.







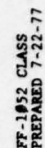
FF-1052 CLASS  
PREPARED 7-28-77



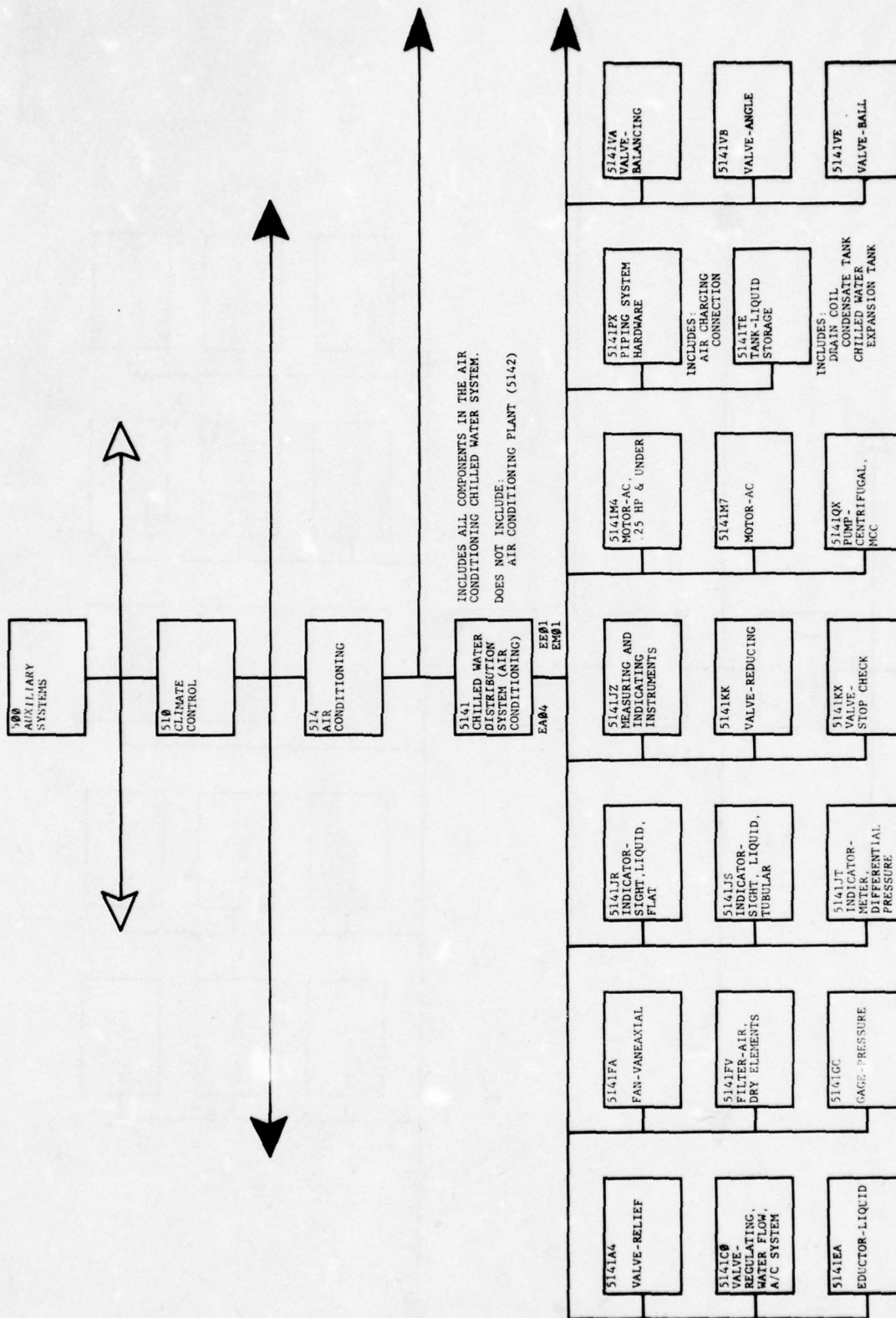




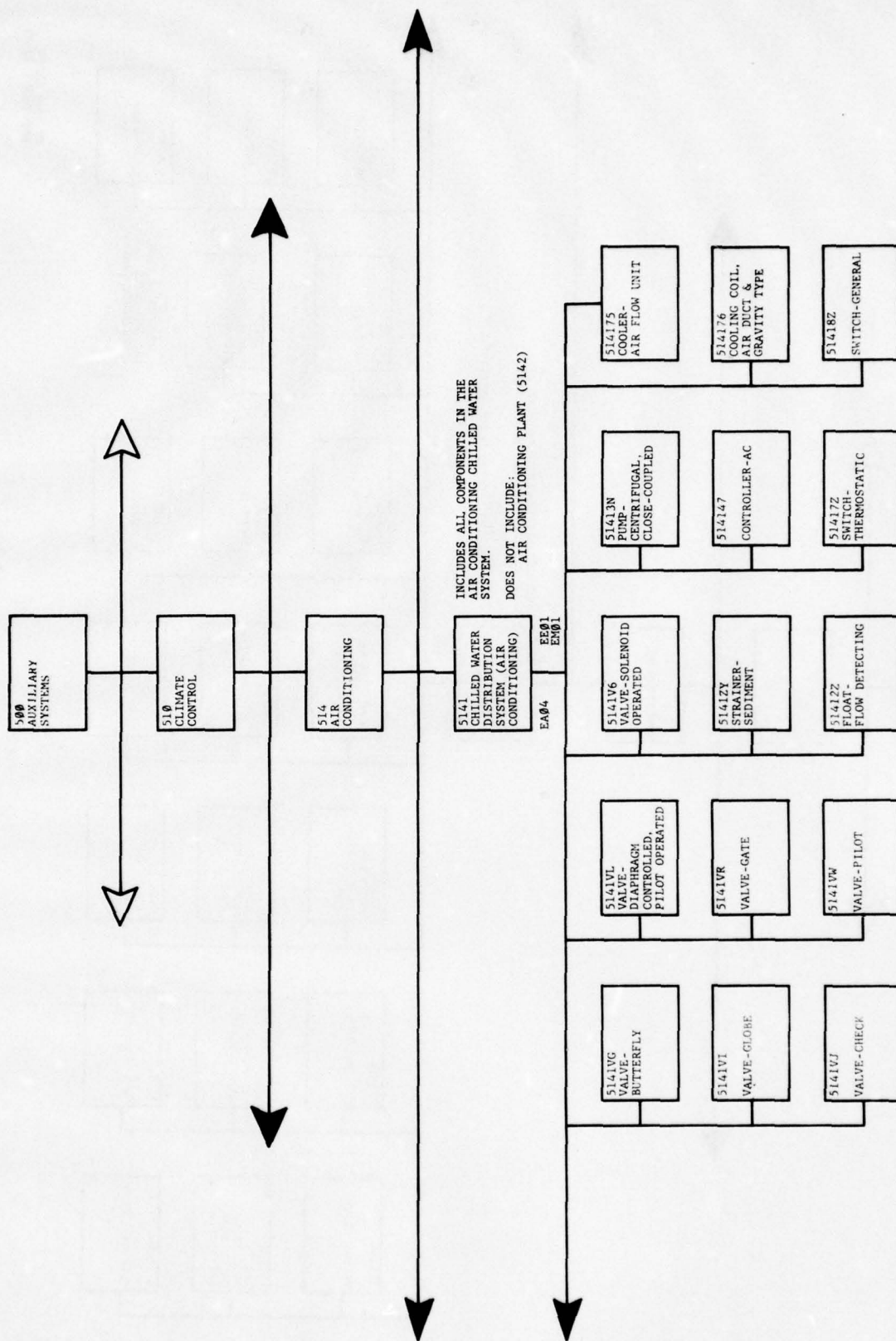


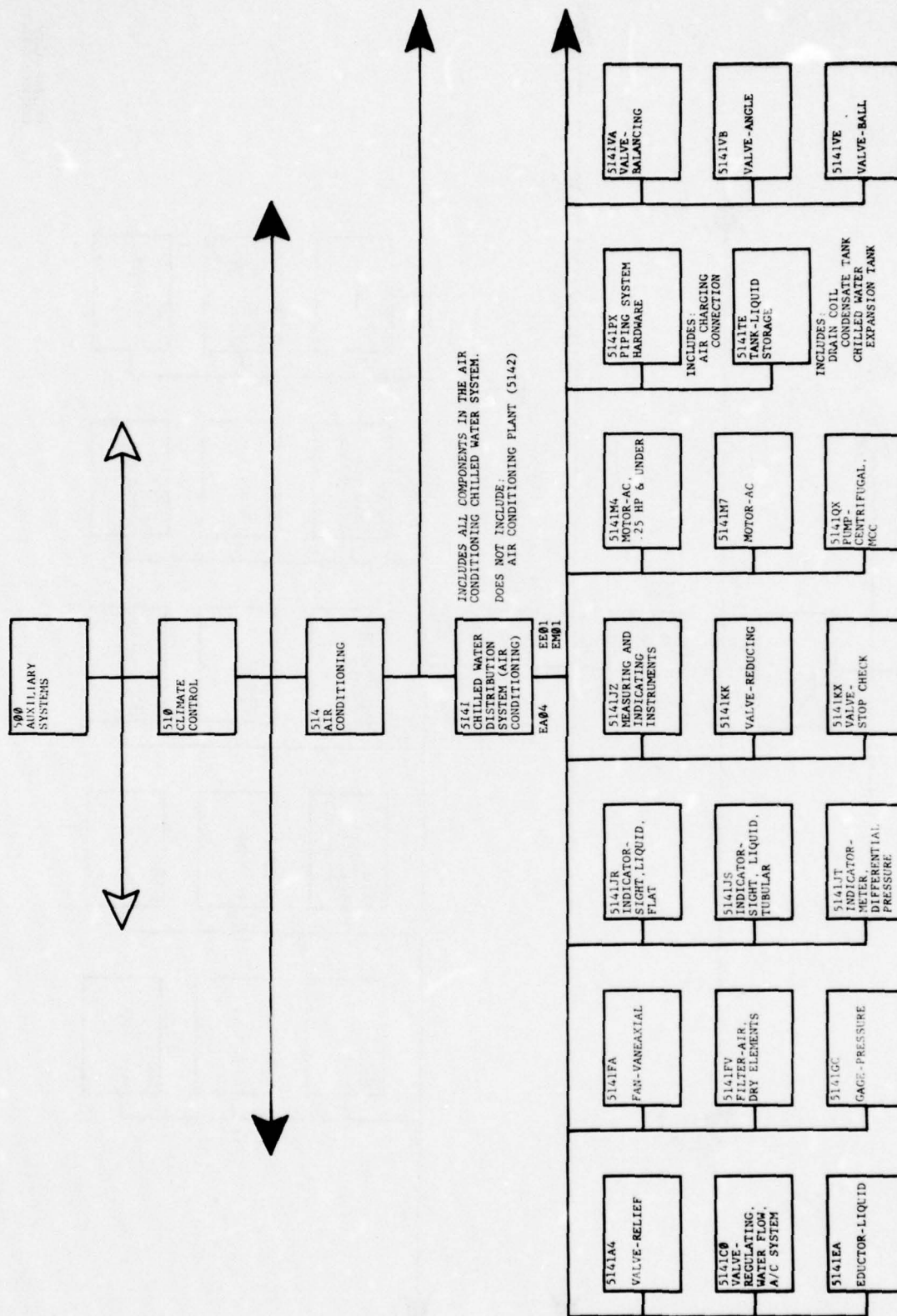






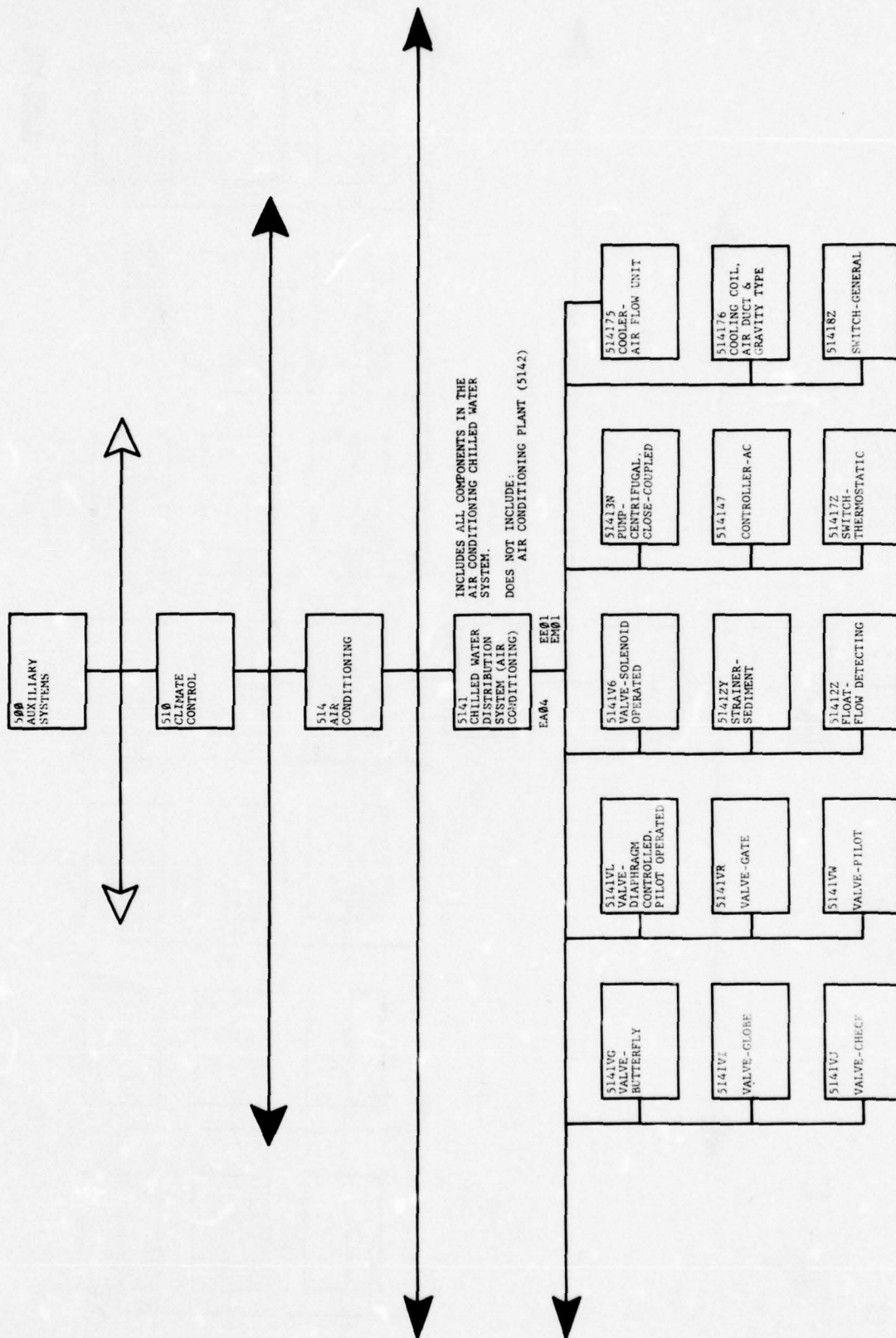
FF-1052 CLASS  
PREPARED 7-22-77

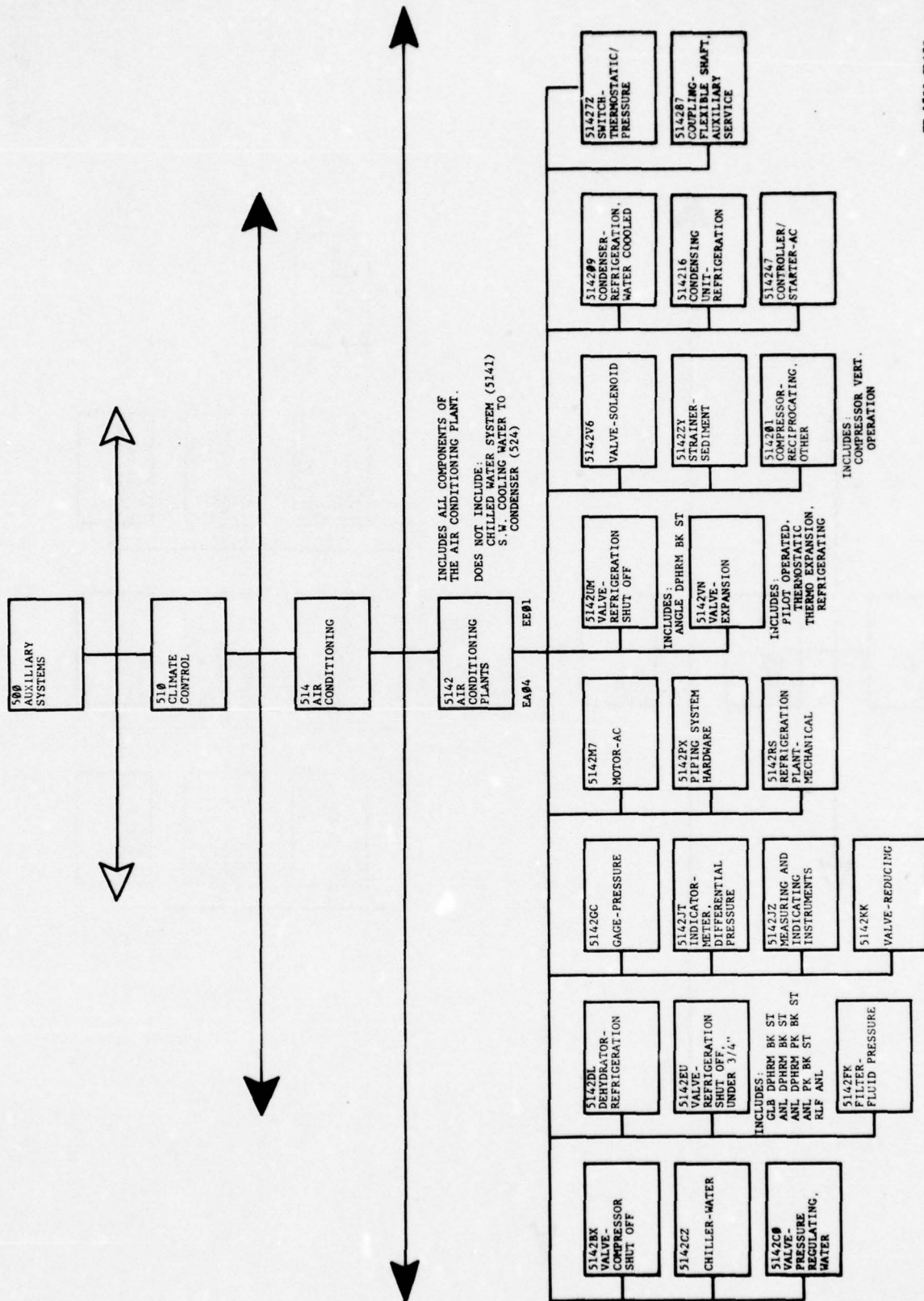




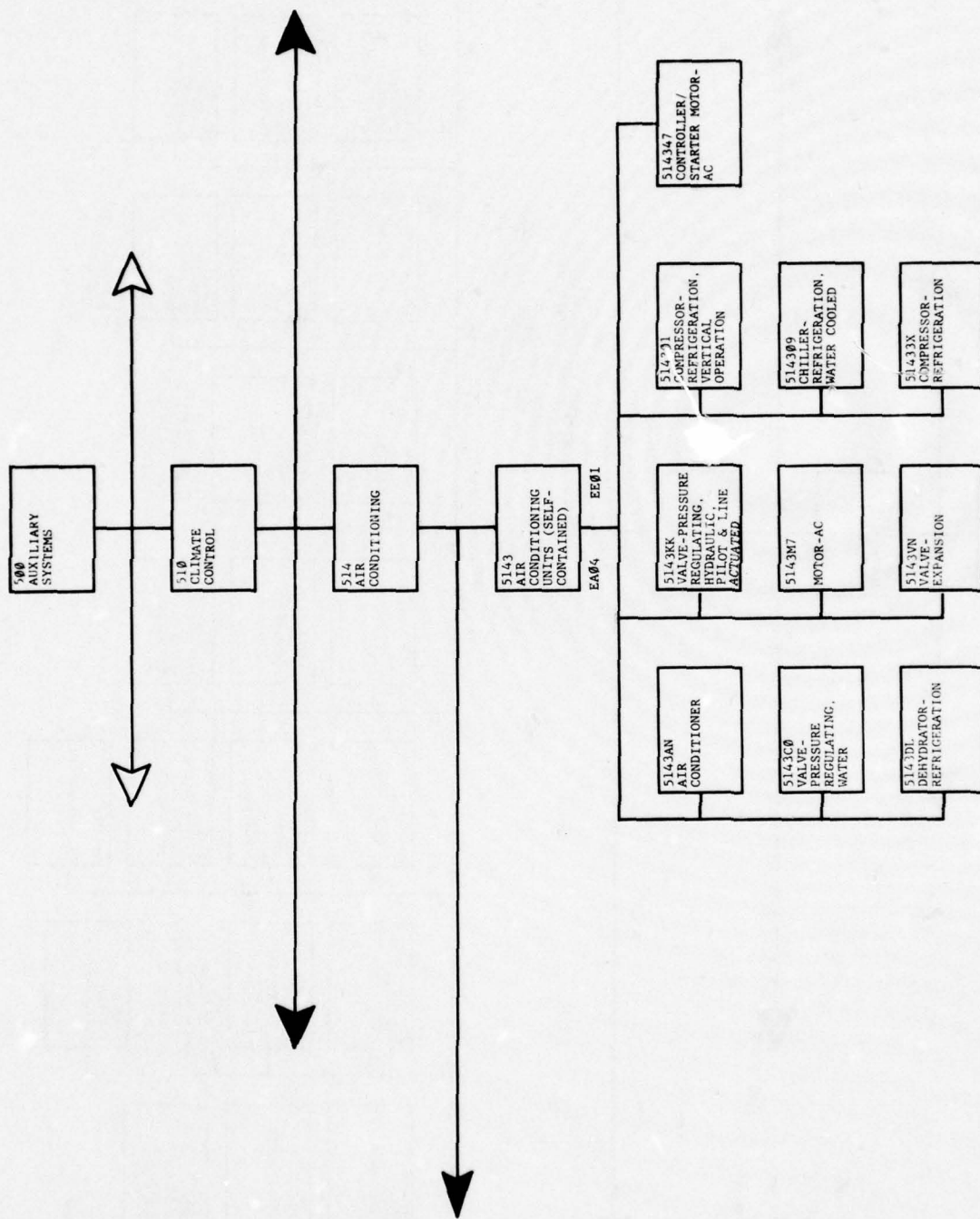
FF-1052 CLASS  
PREPARED 7-22-77





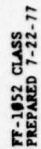


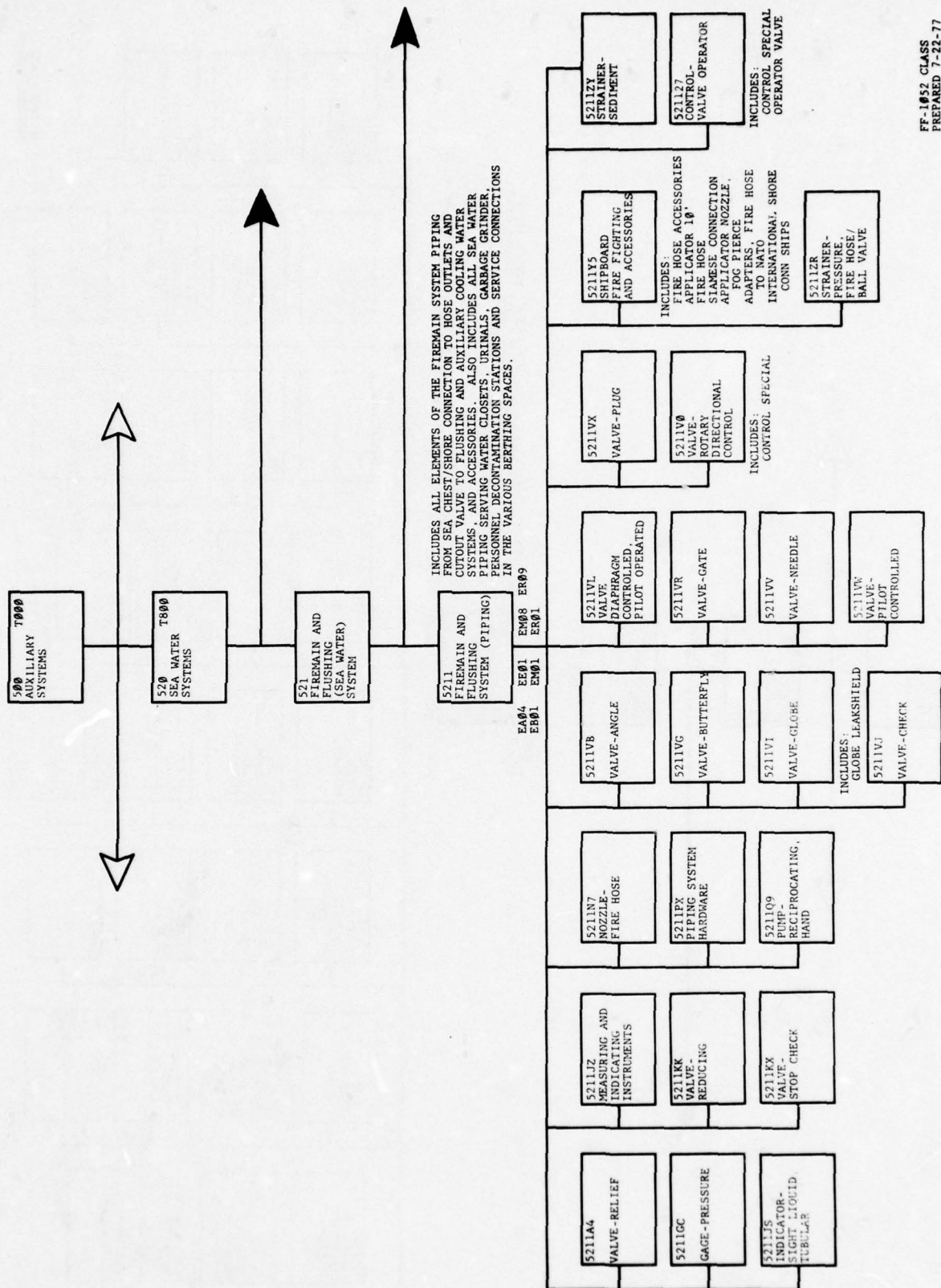
FF-1052 CLASS  
PREPARED 7-22-77



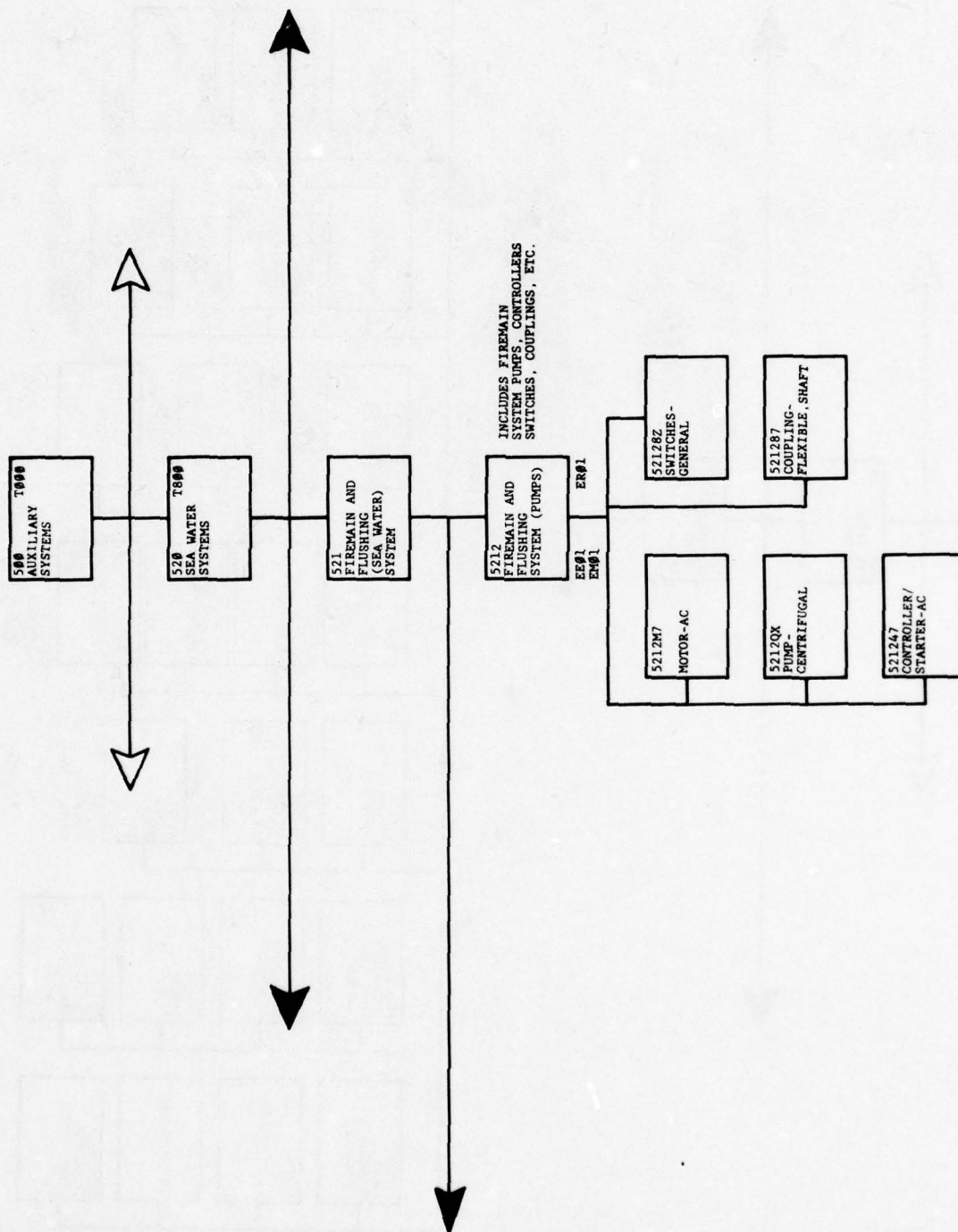
FF-1052 CLASS  
PREPARED 7-22-77





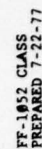


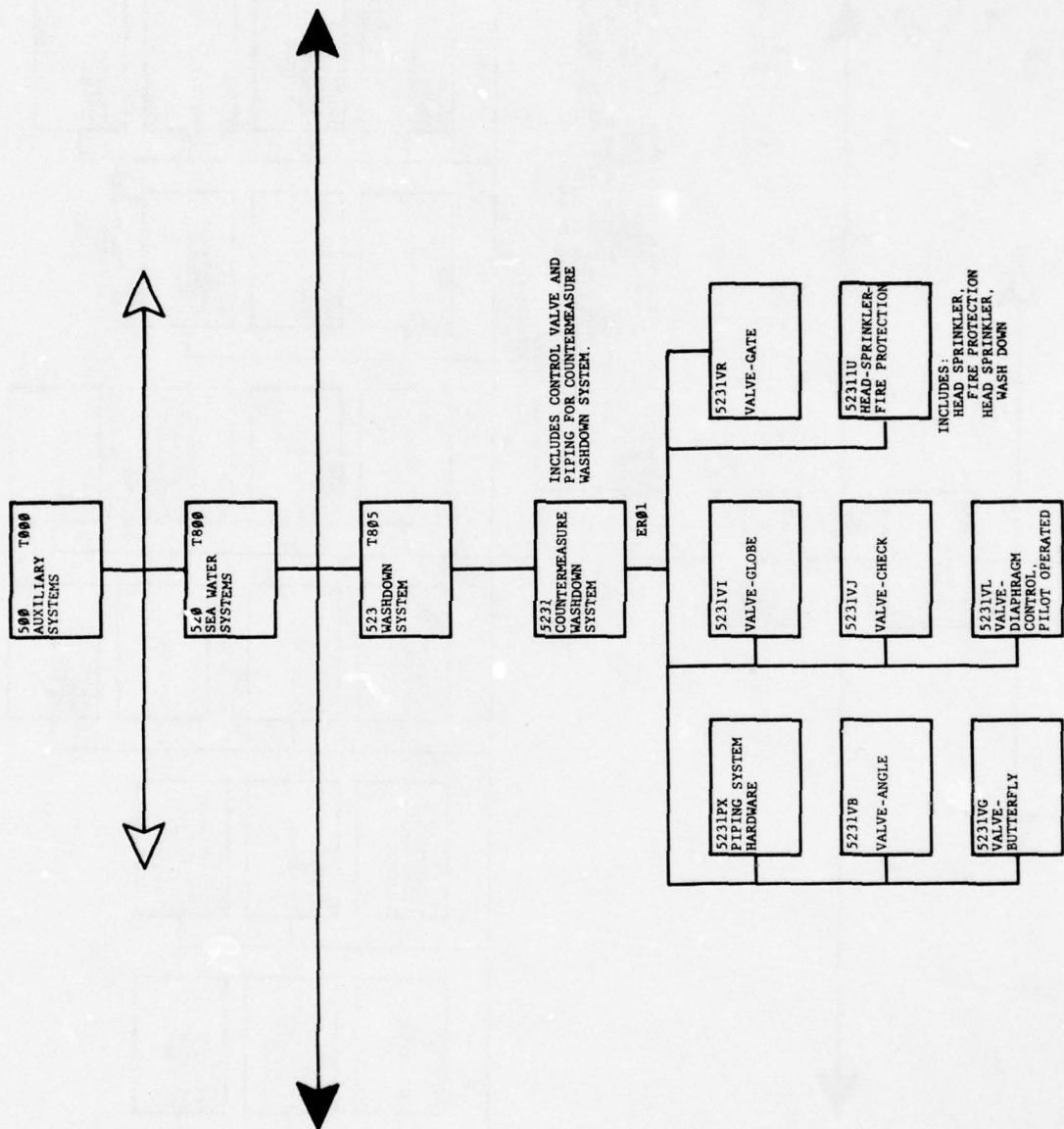
FF-1052 CLASS  
PREPARED 7-22-77



FF-1022 CLASS  
PREPARED 7-23-77

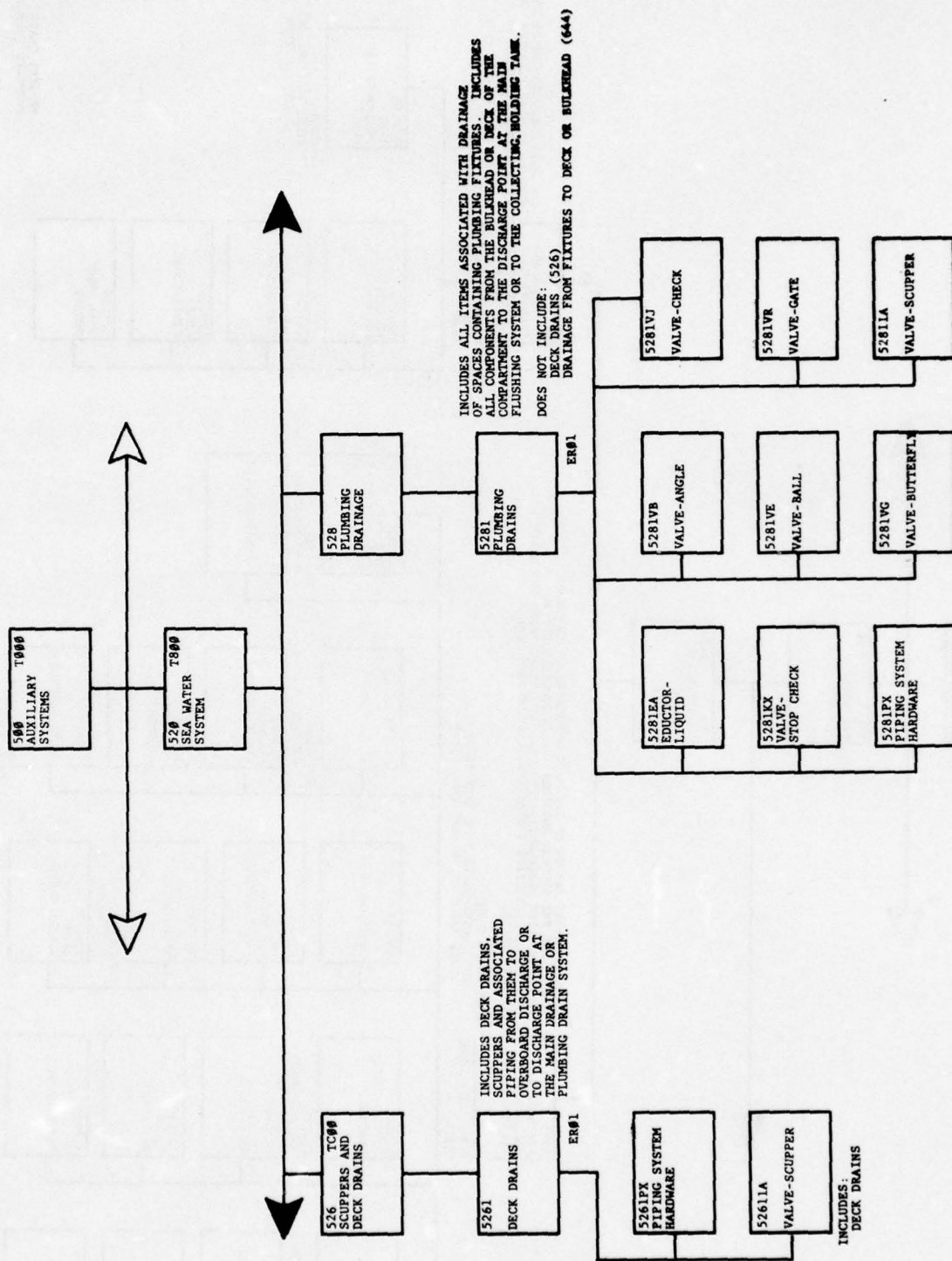


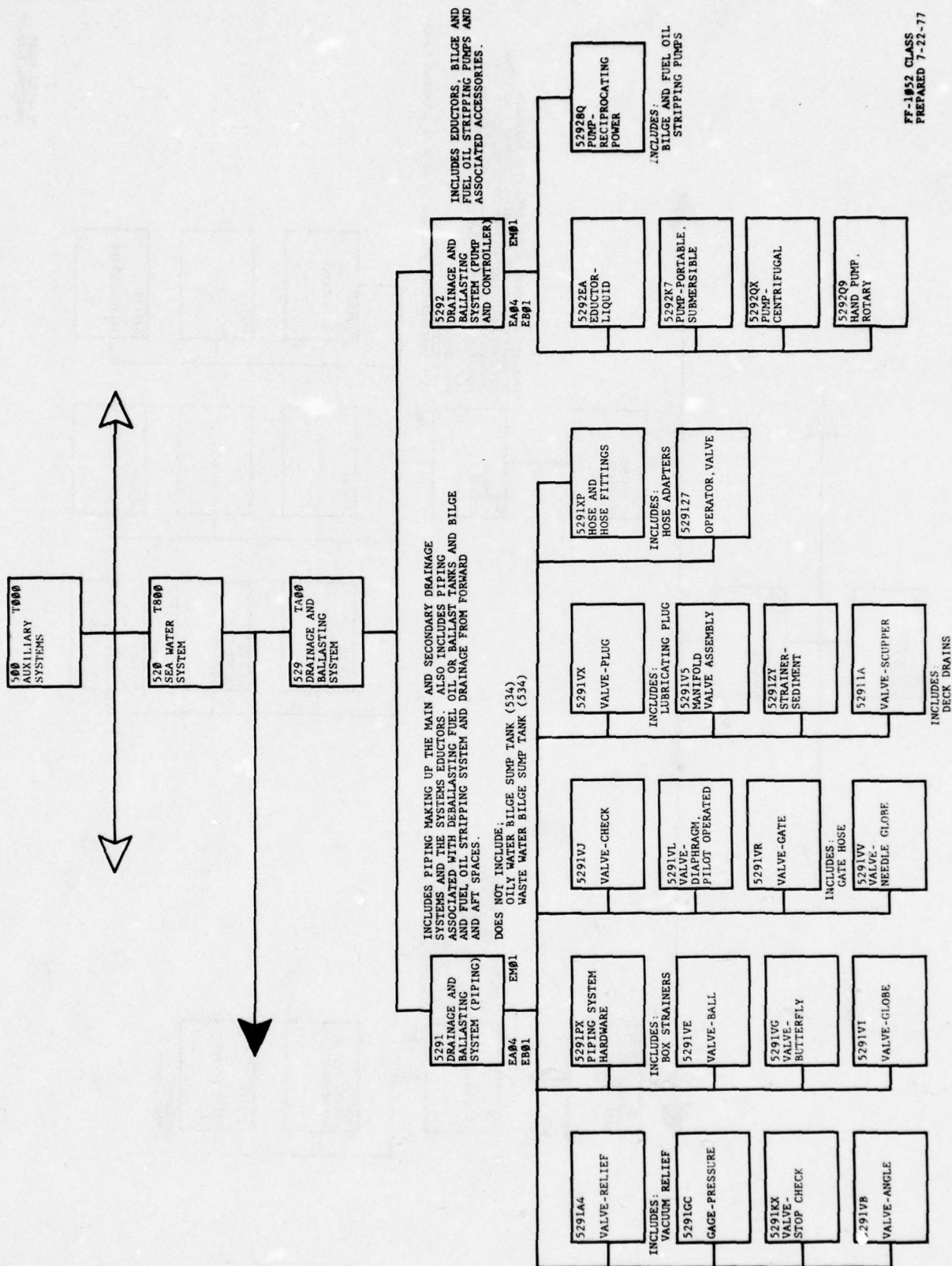




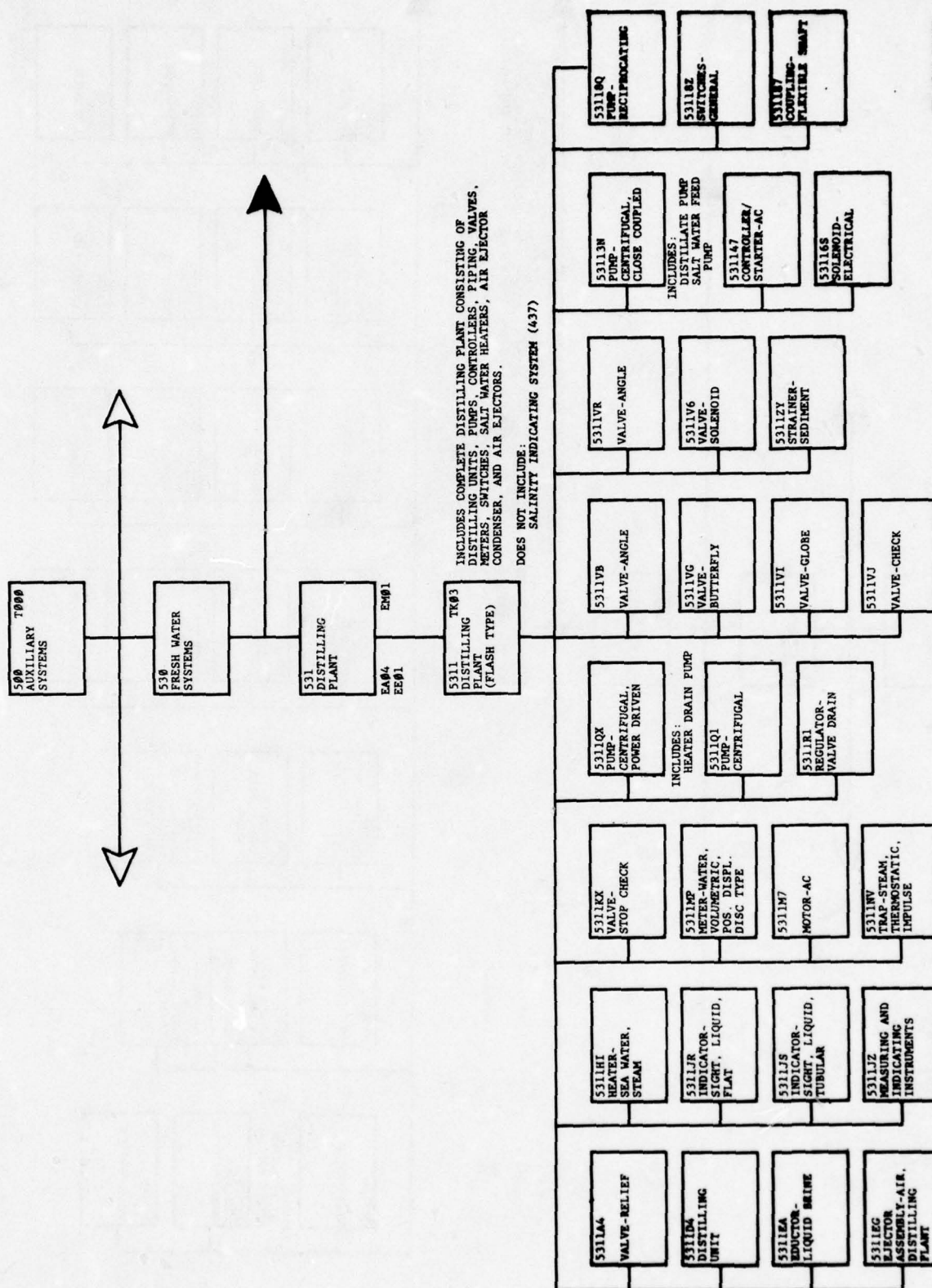






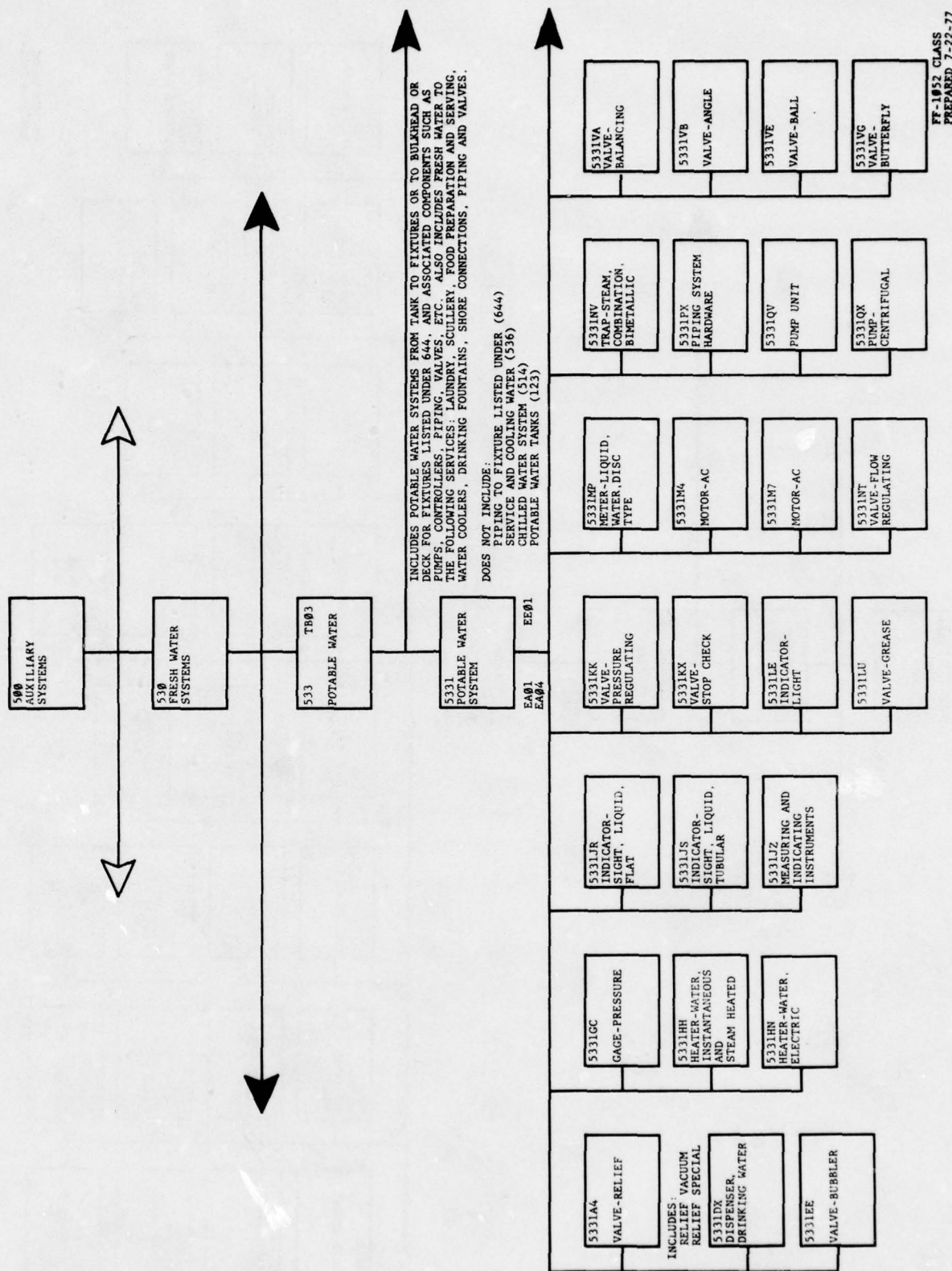


FF-1052 CLASS  
 PREPARED 7-22-77

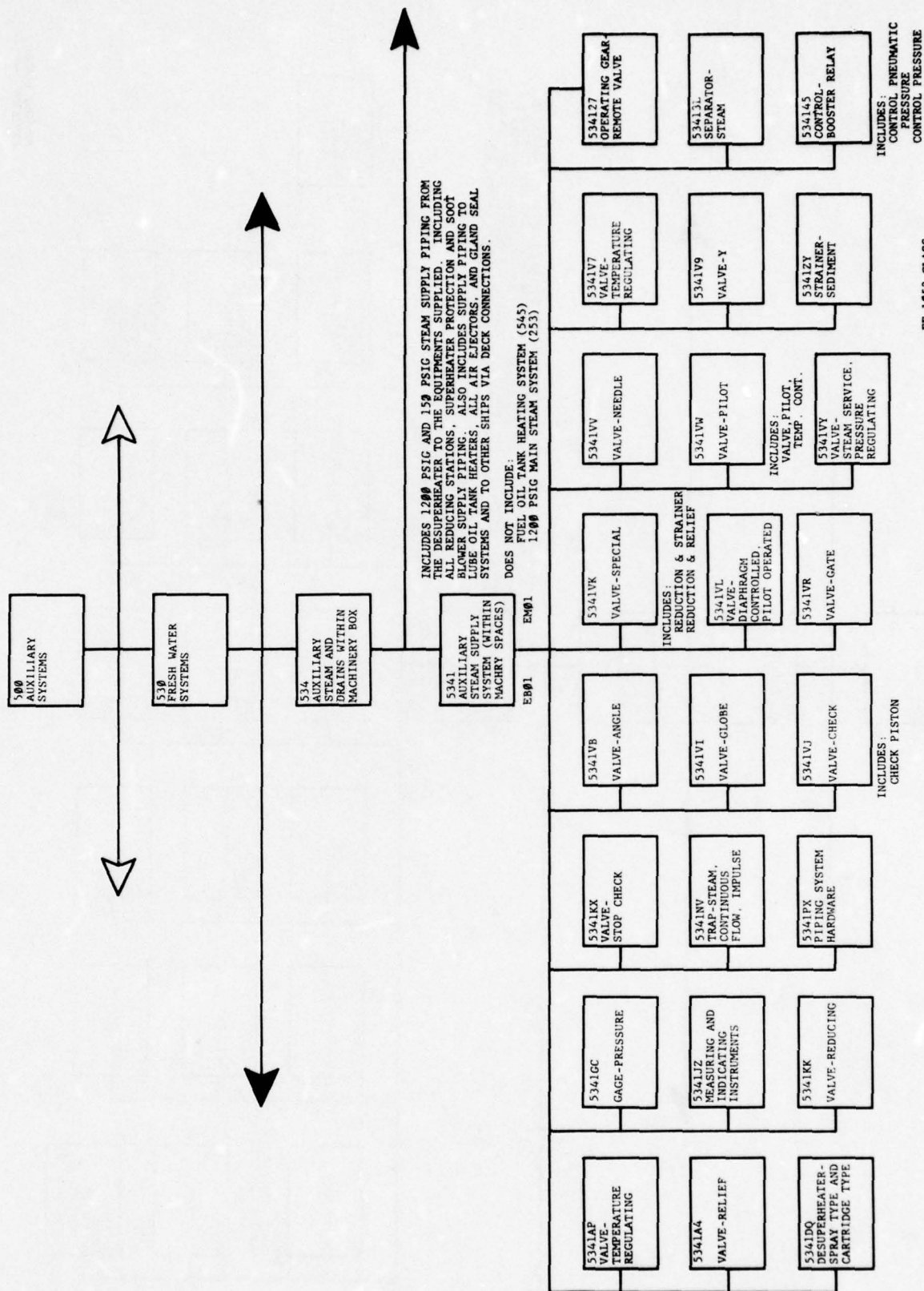


FF-1632 CLAMS  
PREPARED 7-22-77

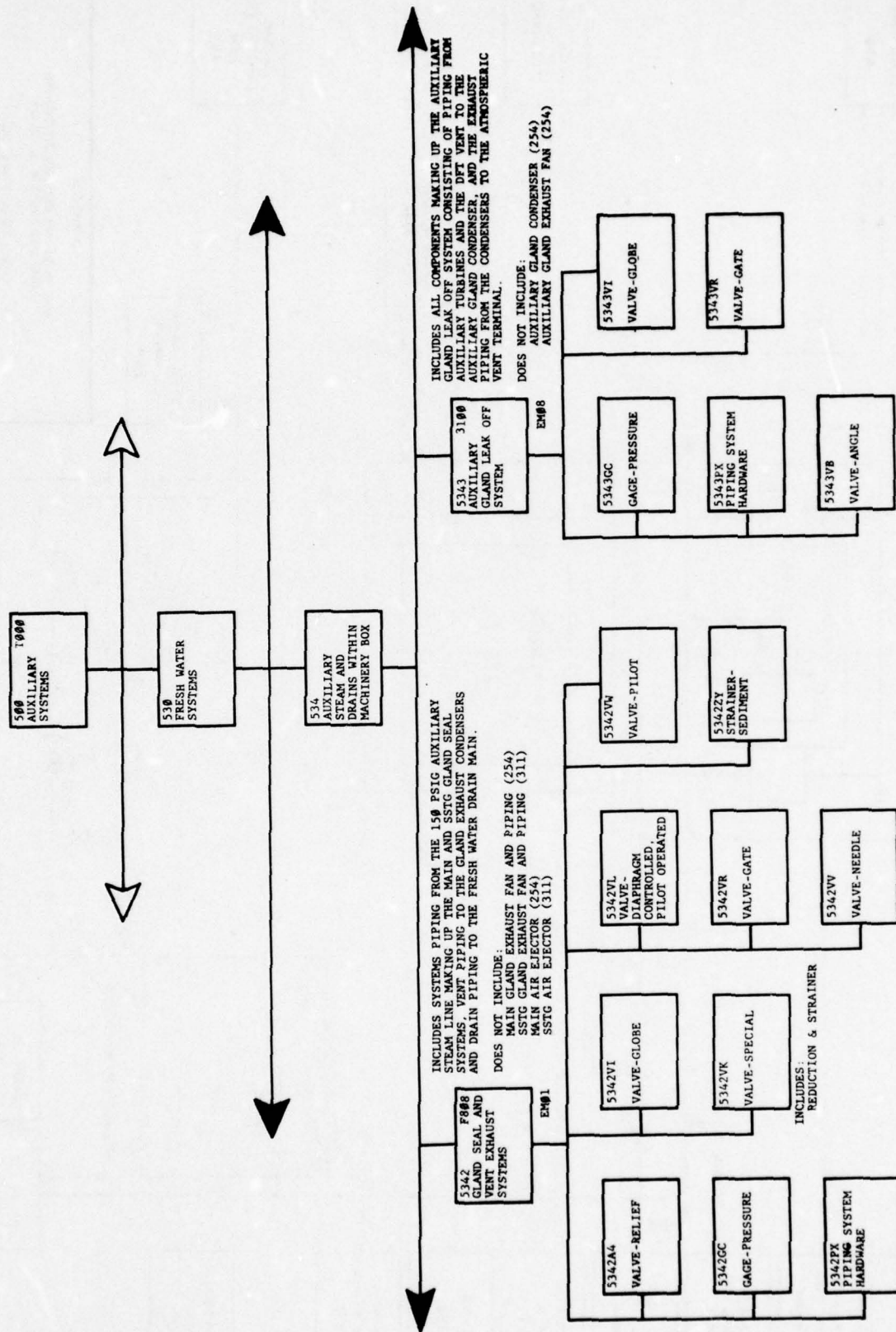


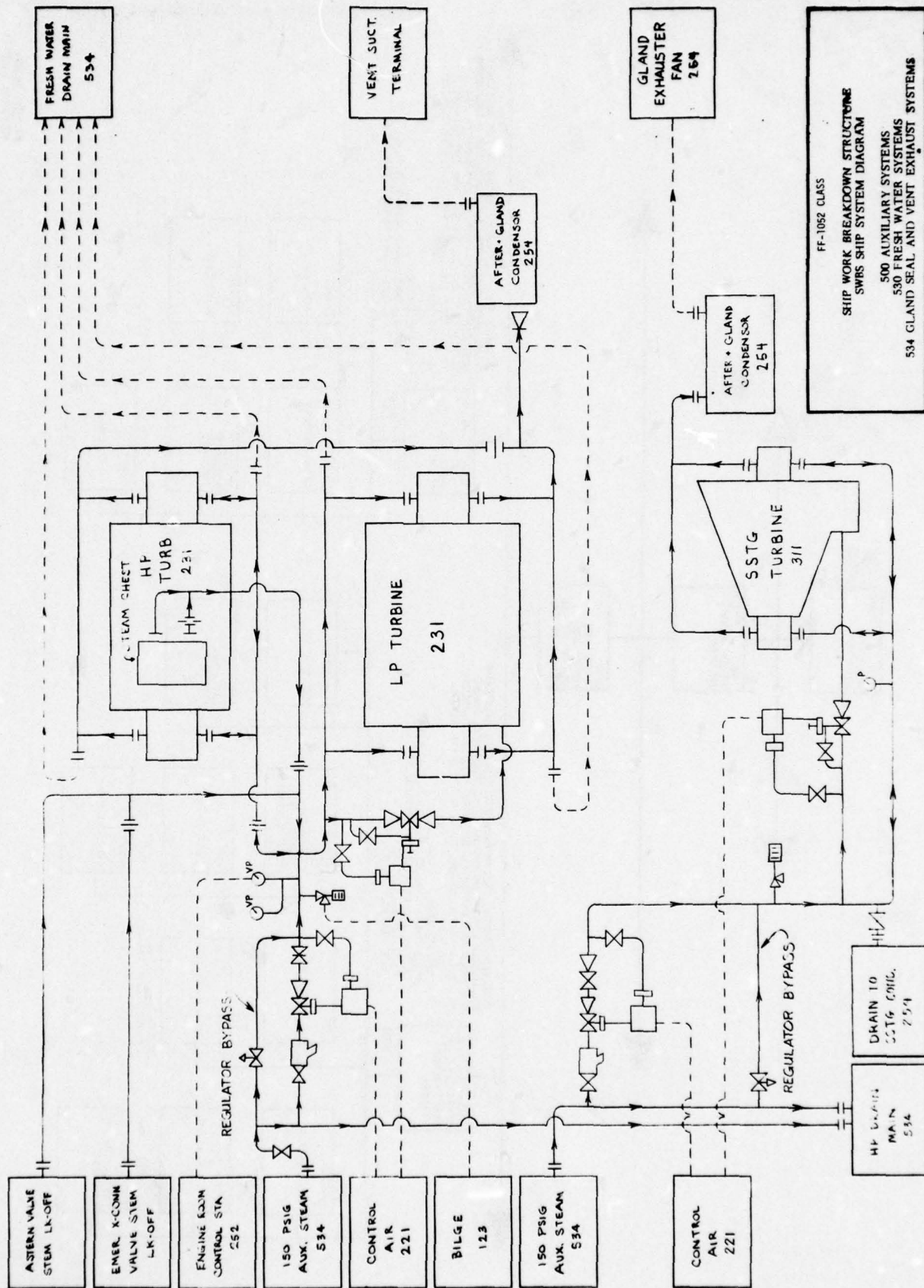


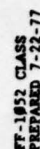




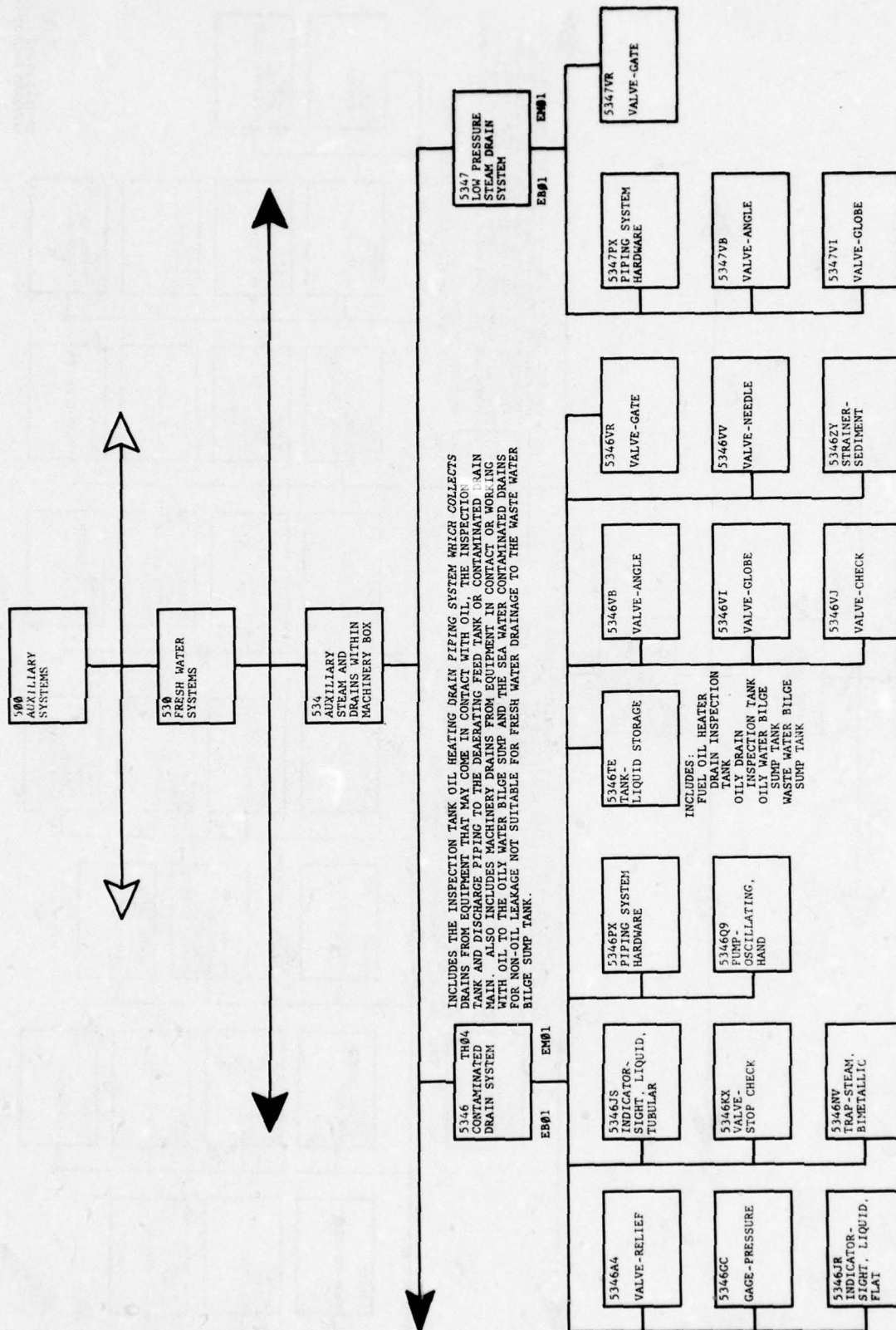




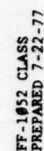




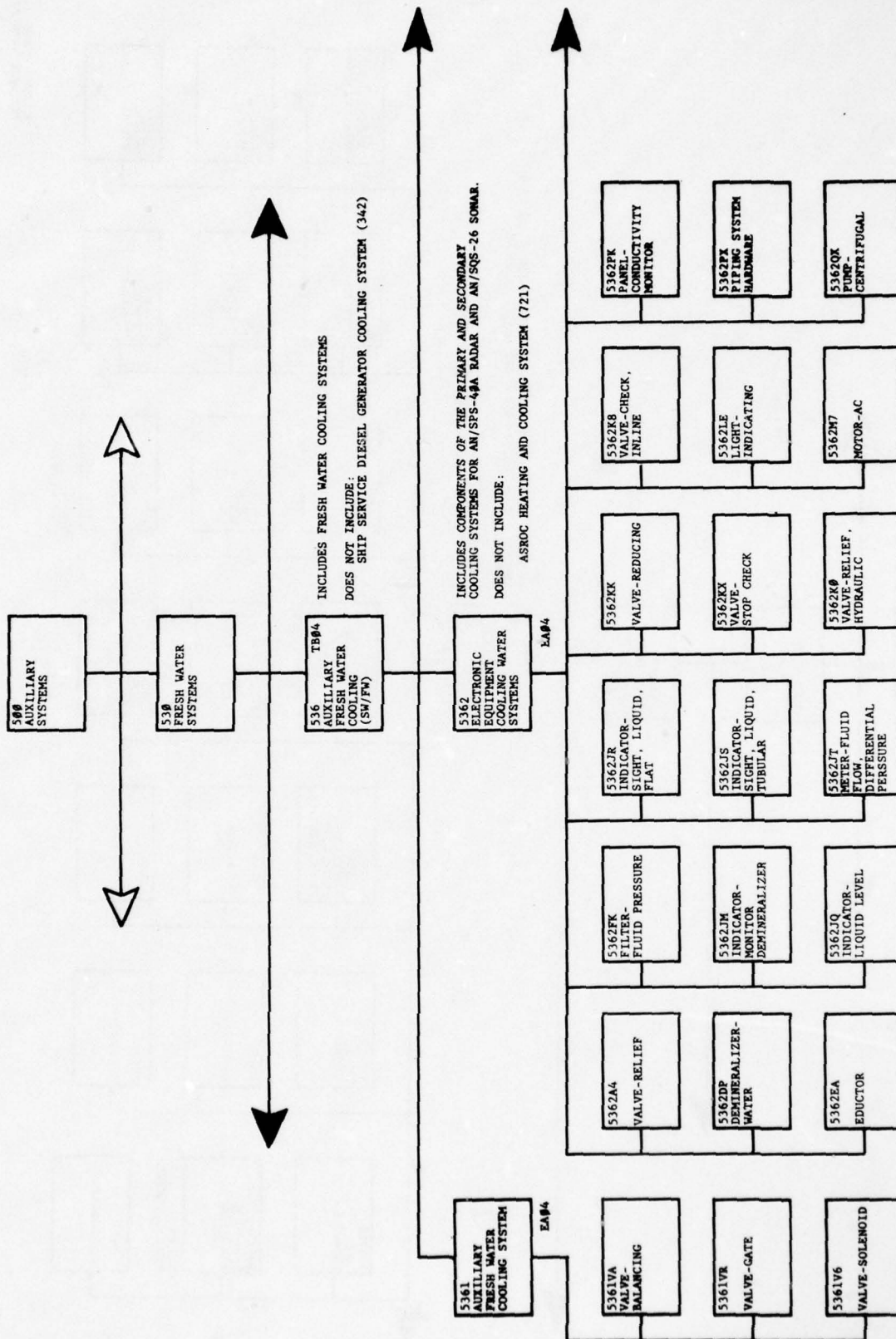




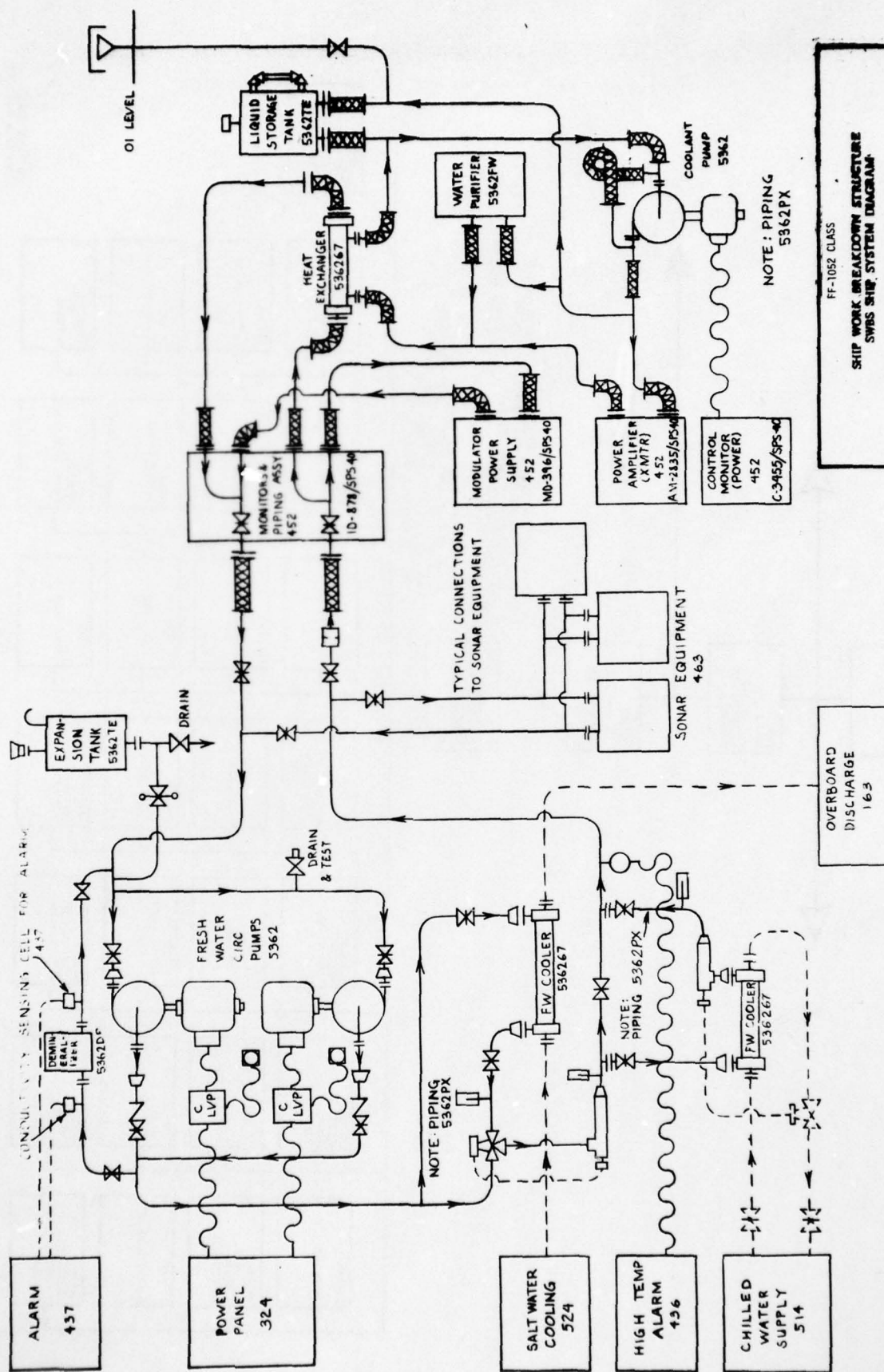












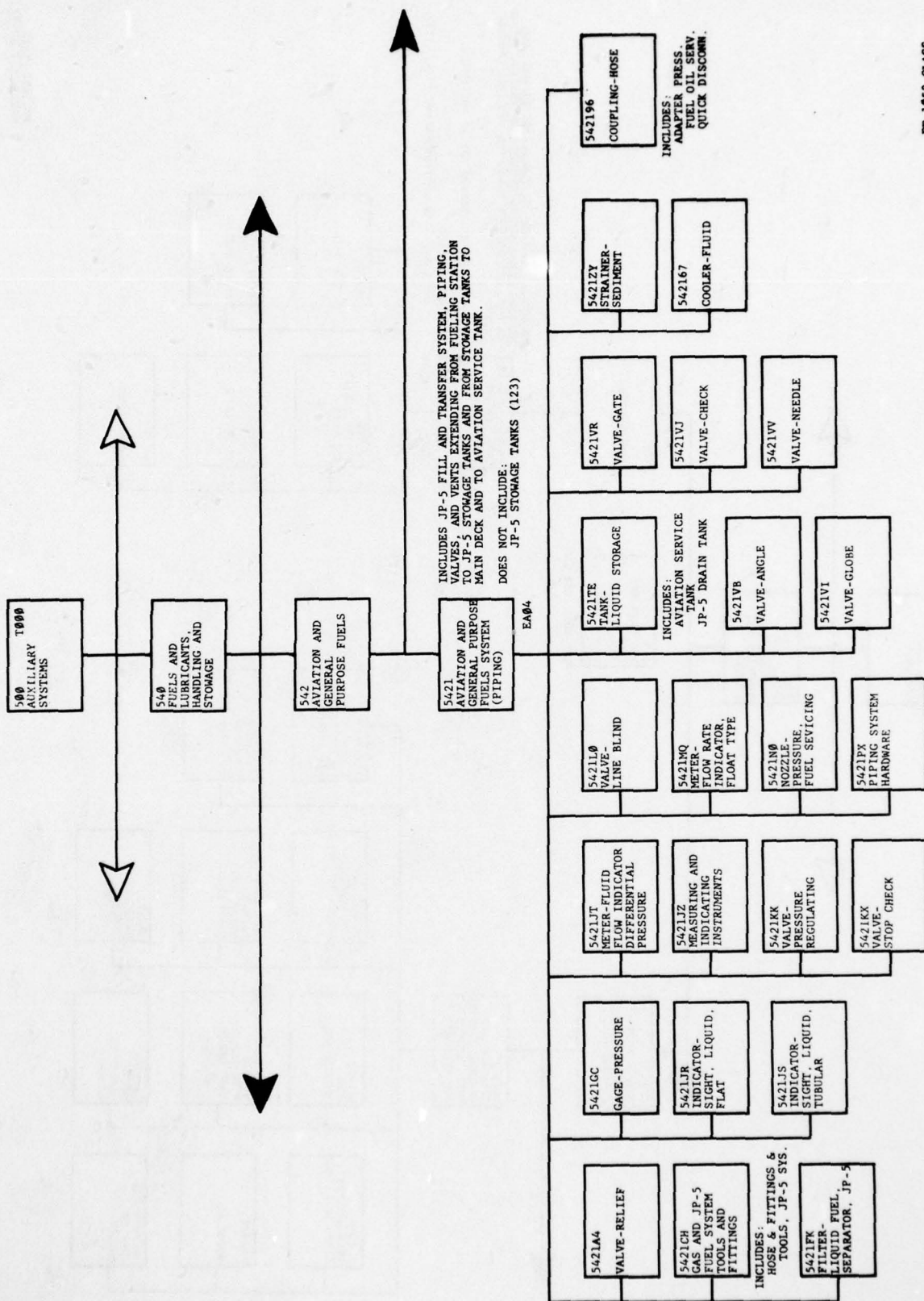
NOTE: PIPING  
5362PX

SHIP WORK BREAKDOWN STRUCTURE  
SWBS SHIP SYSTEM DIAGRAM  
500 AUXILIARY SYSTEMS  
550 FRESH WATER SYSTEMS  
556 RADAR AND SONAR COOLING

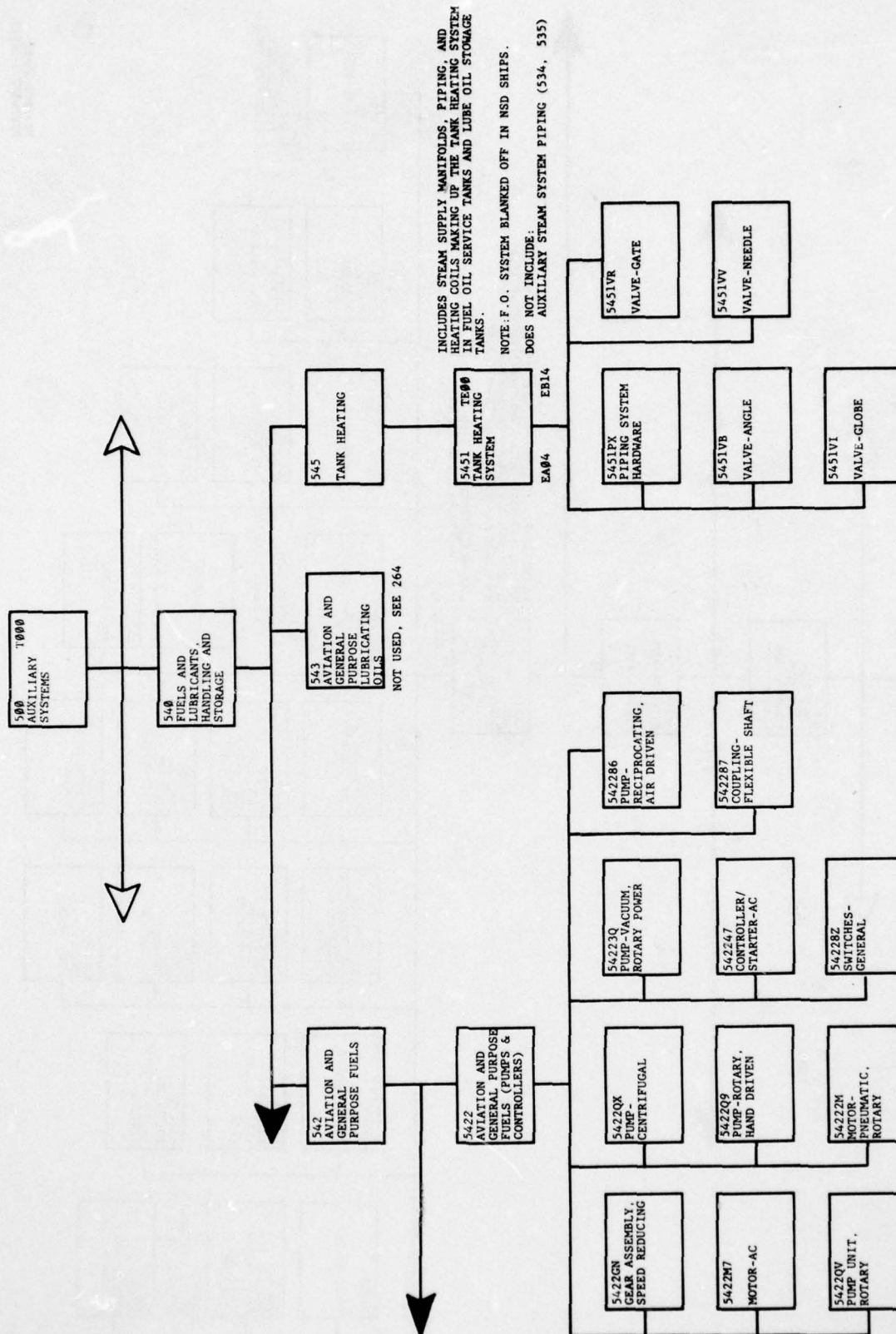
FF-1052 CLASS





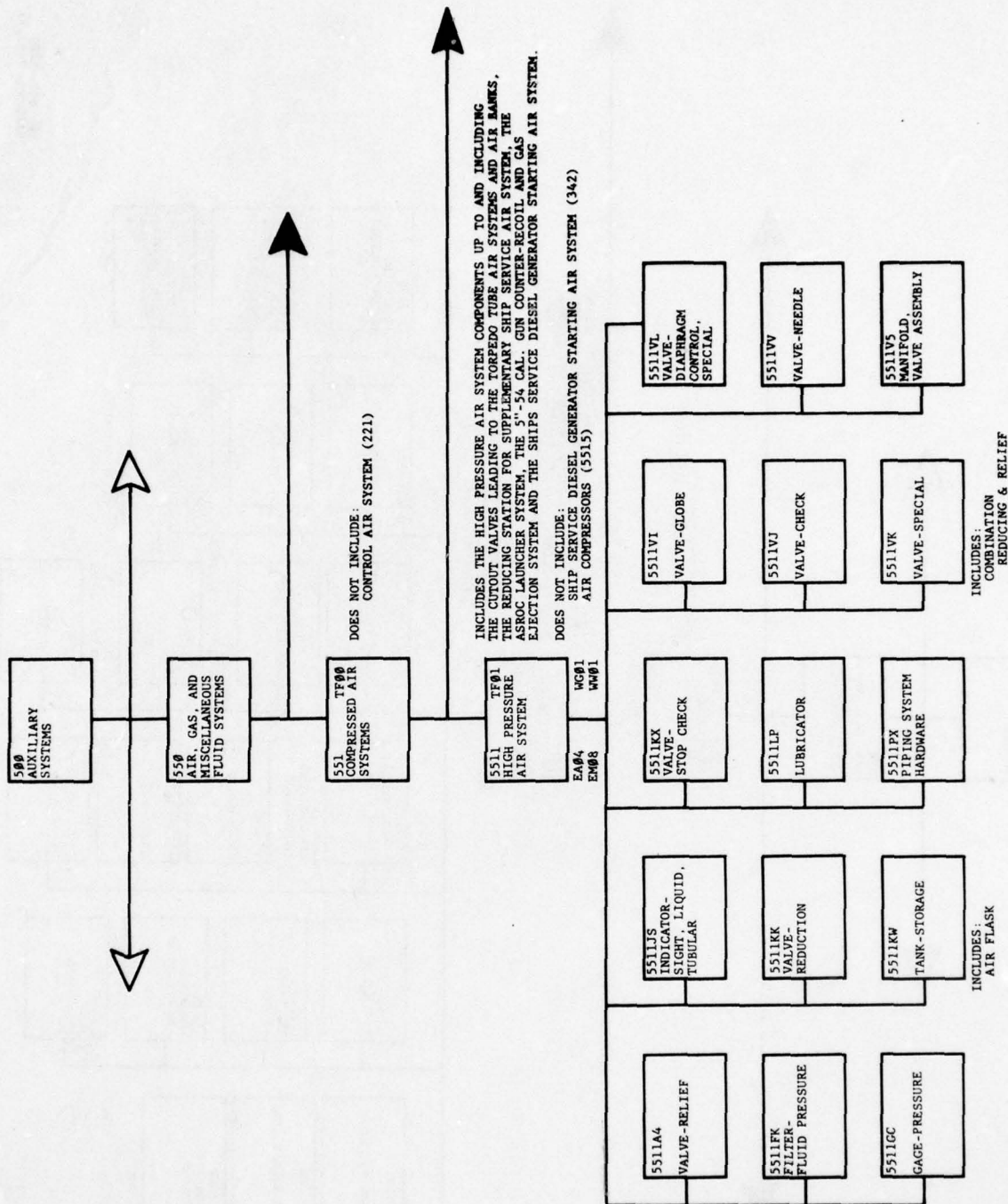


FF-1052 CLASS  
PREPARED 7-22-77



FF-1032 CLASS  
PREPARED 7-22-77



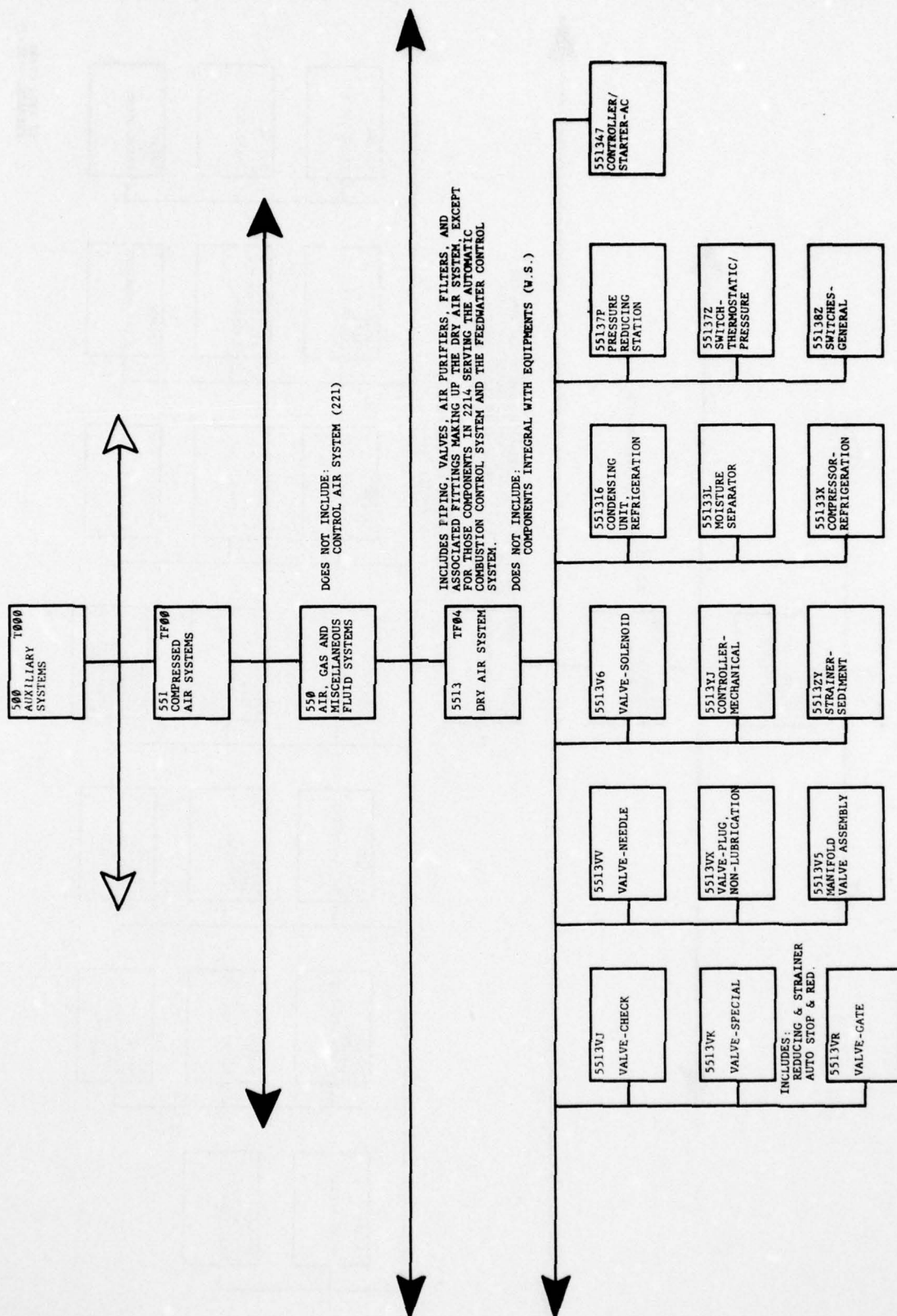


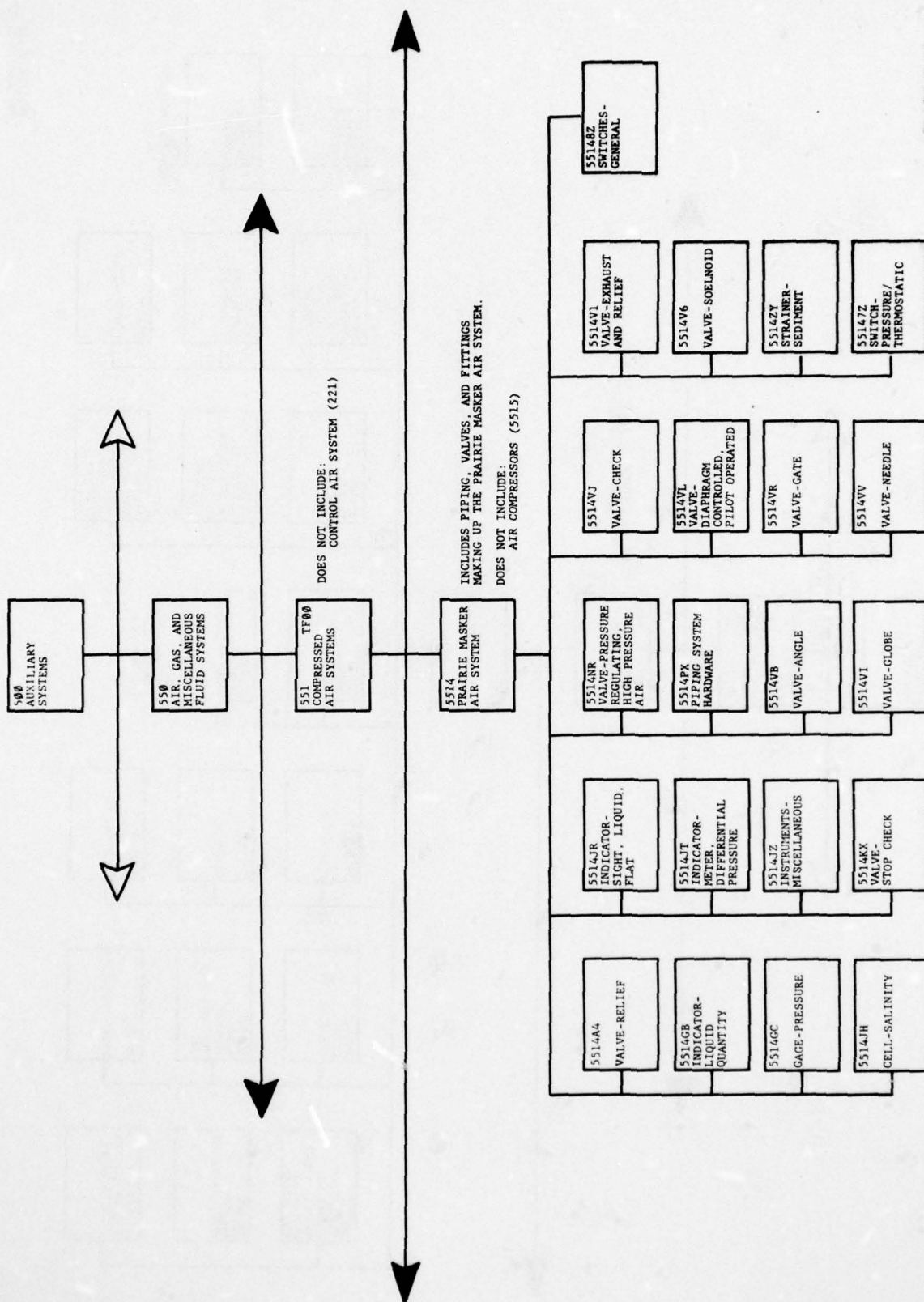
FF-1052 CLASS  
PREPARED 7-22-77



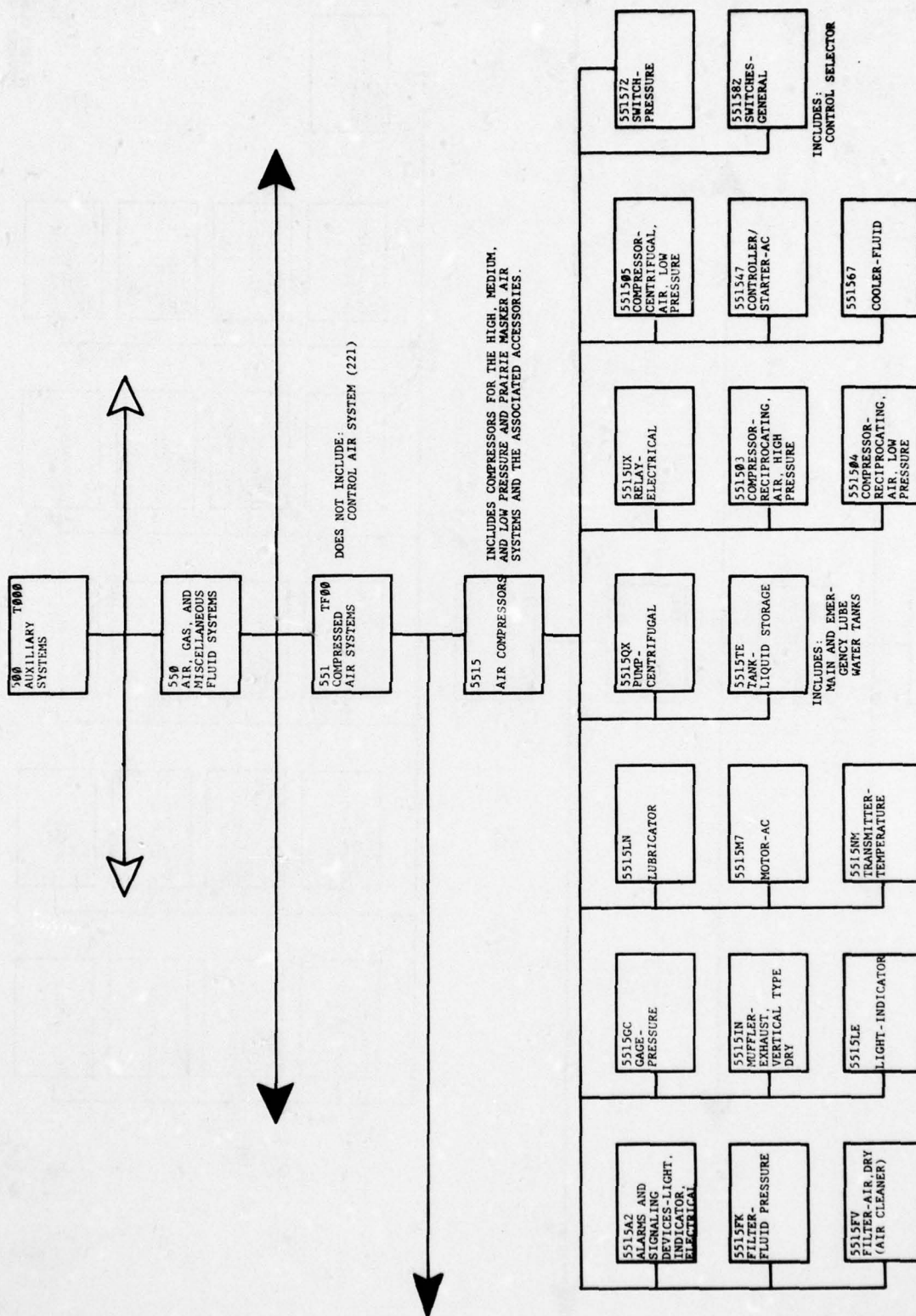




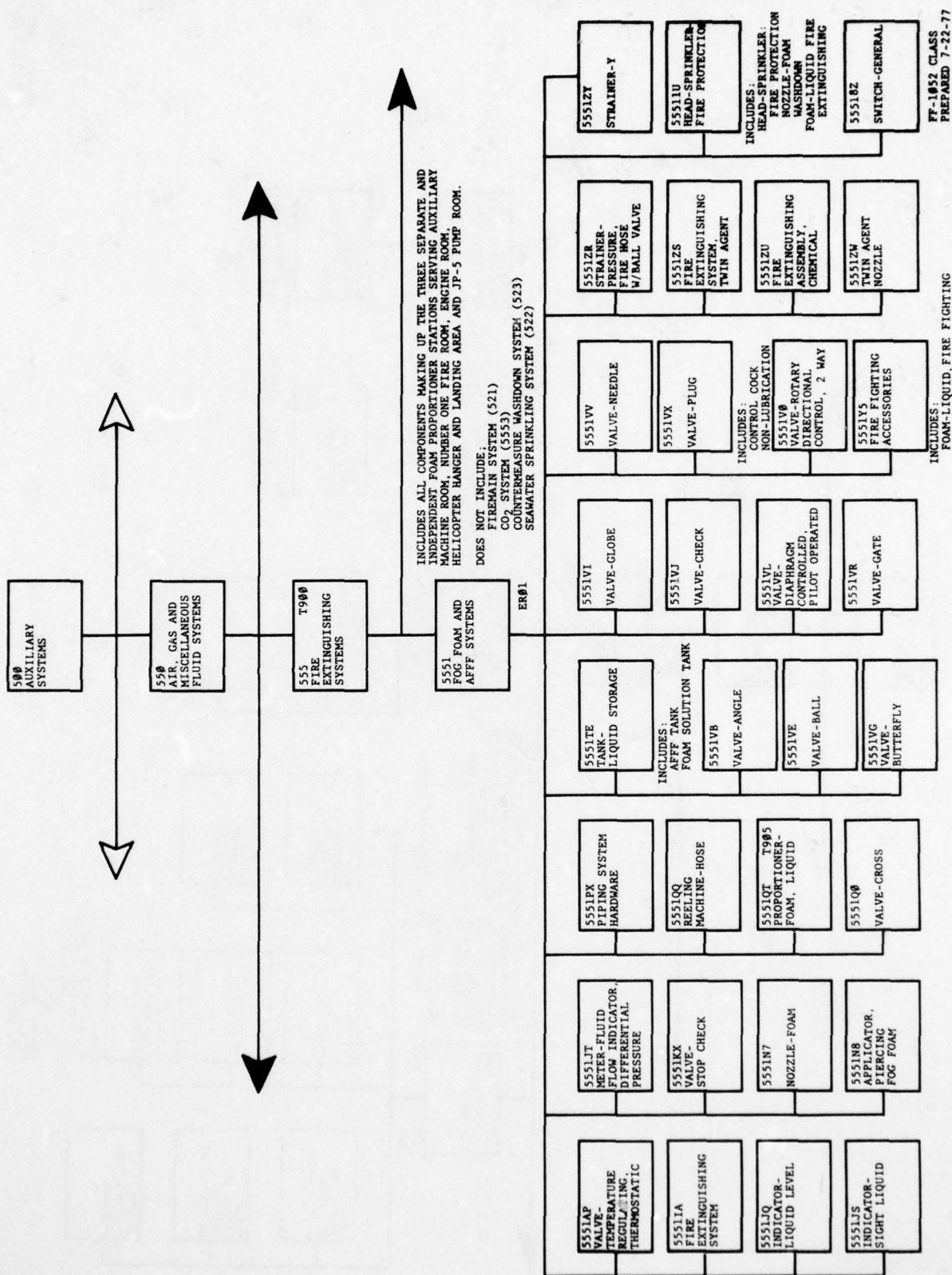


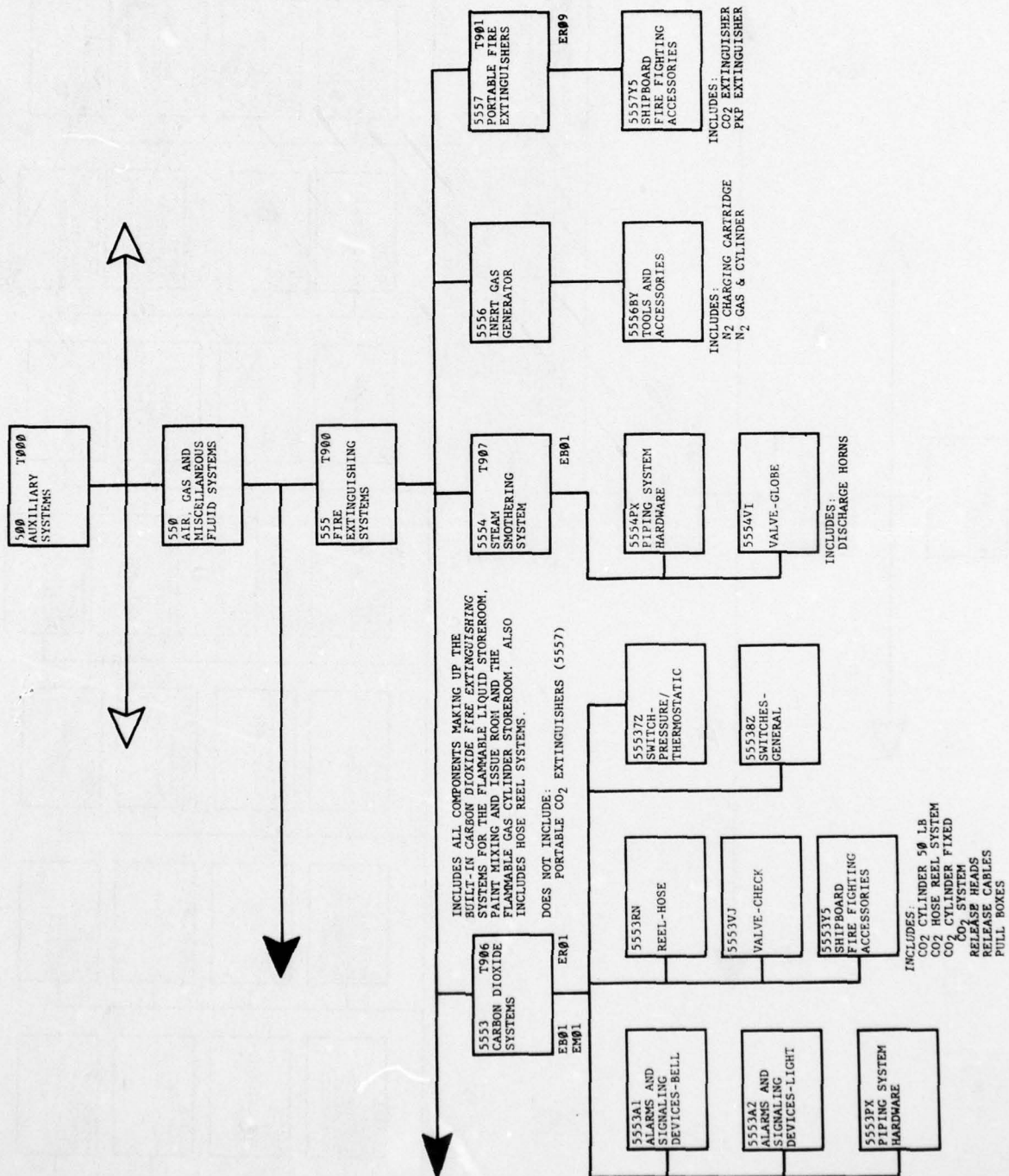


FF-1032 CLASS  
PREPARED 7-22-77













AD-A050 439

ARINC RESEARCH CORP ANNAPOLIS MD  
SHIP SYSTEMS DEFINITION AND INDEX (SWBS STAGING DIAGRAMS) FOR F--ETC(U)  
OCT 76

F/G 13/10

N00140-76-D-0813

UNCLASSIFIED

1804-01-1-1547R

NL

3 OF 3  
AD  
A050439

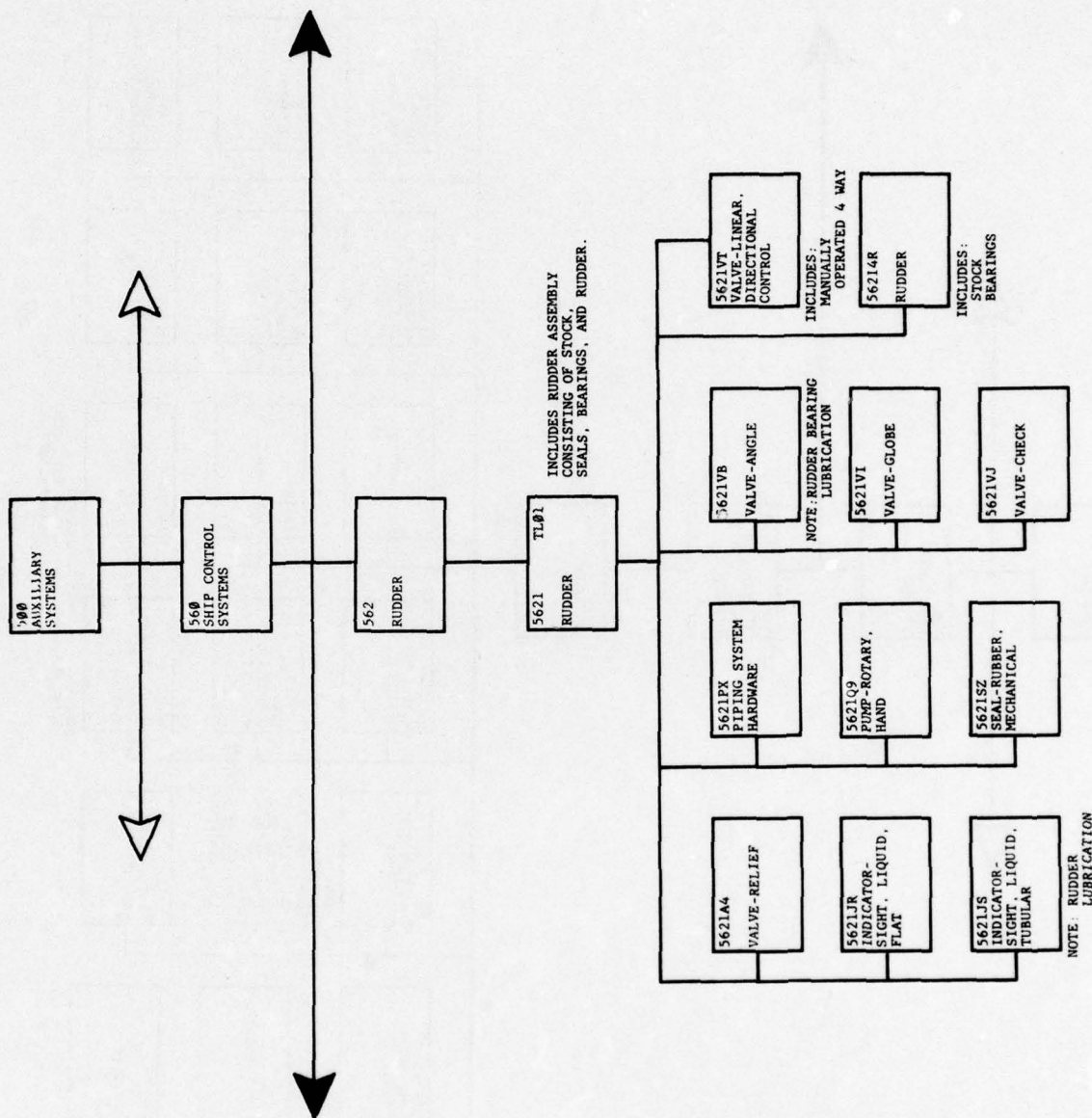


END  
DATE  
FILMED

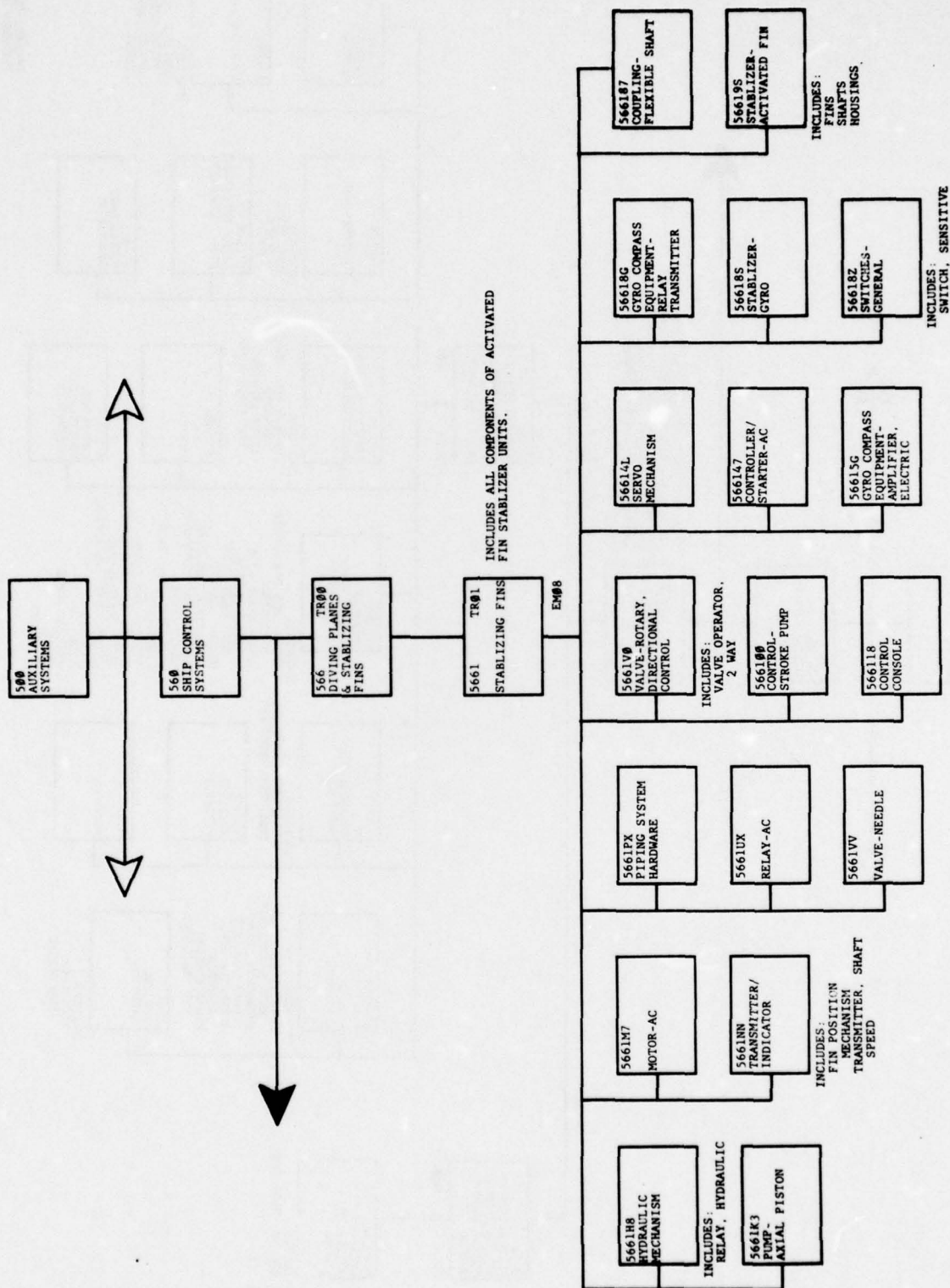
3-78

DDC

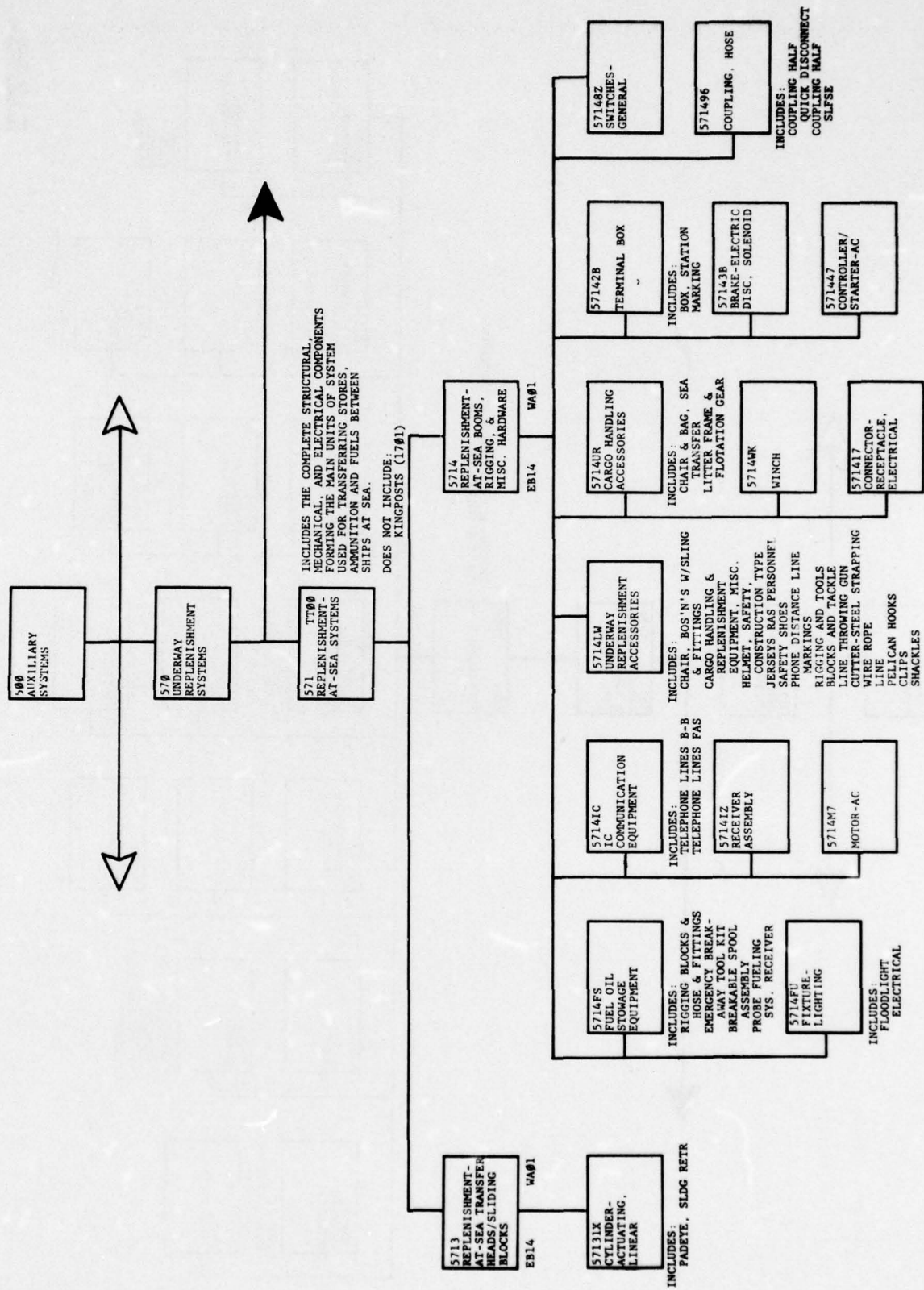


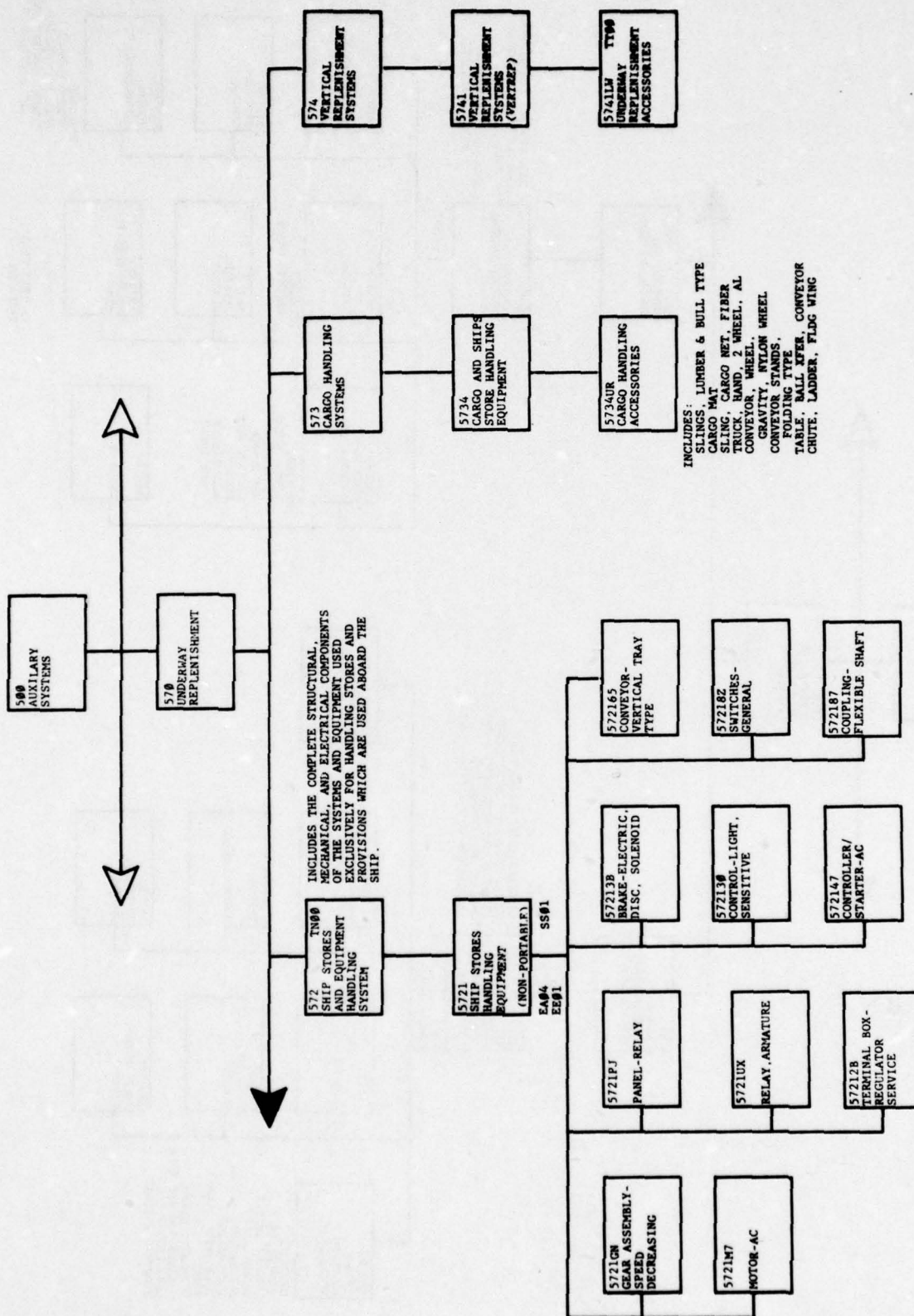






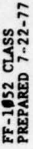
FF-1932 CLASS  
PREPARED 7-22-77

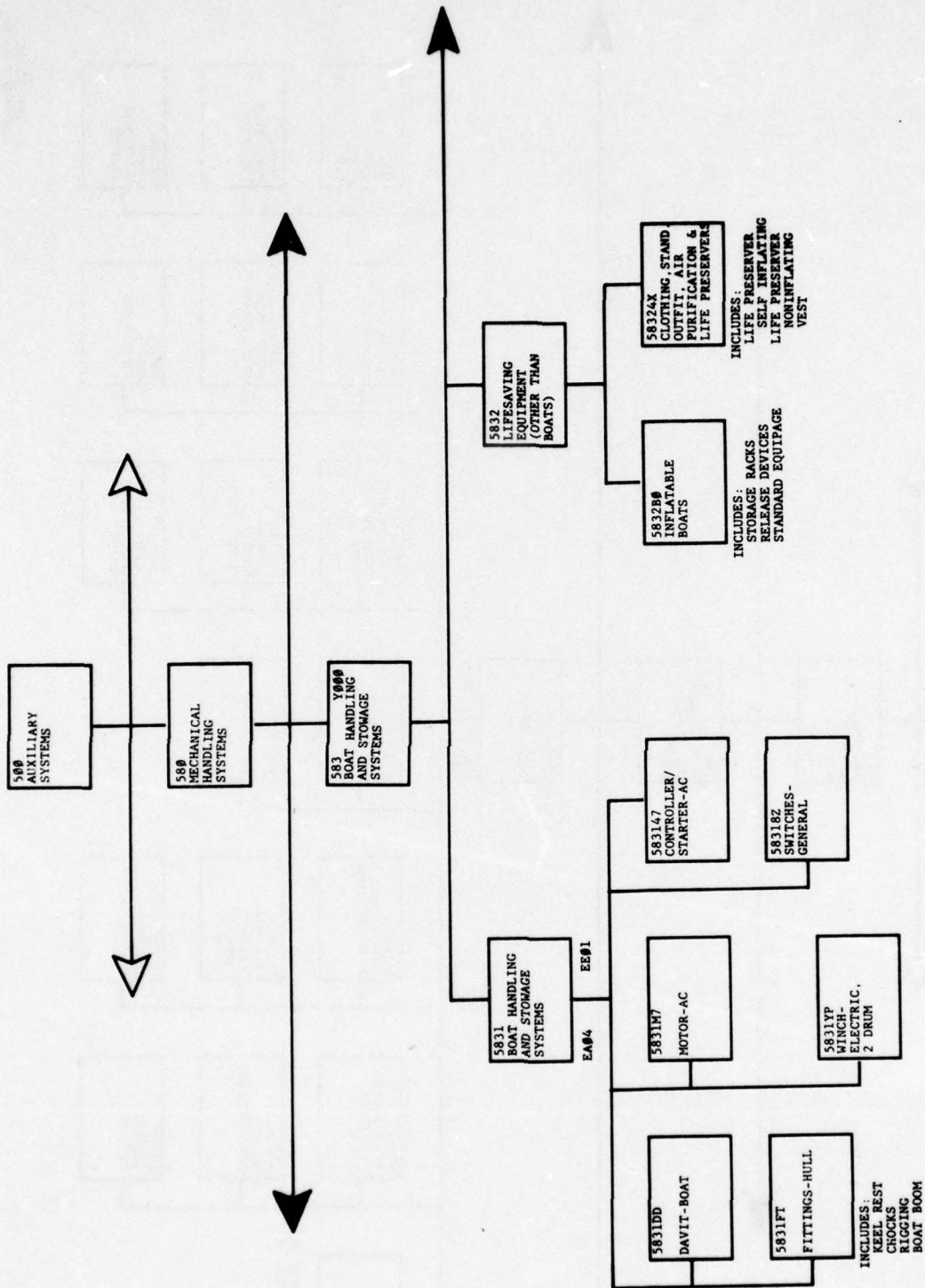




17-1052 CLASS  
 PREPARED 7-22-77



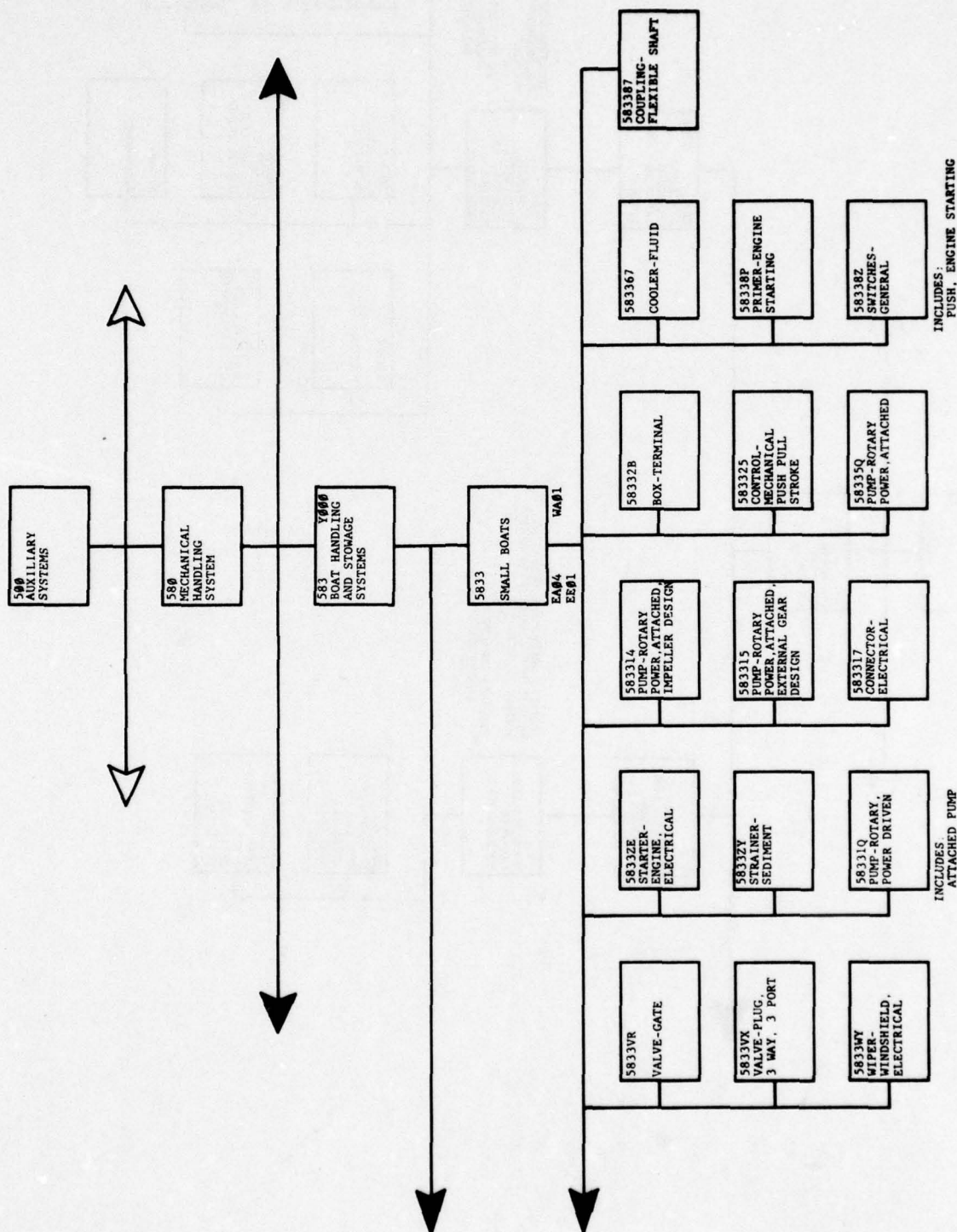


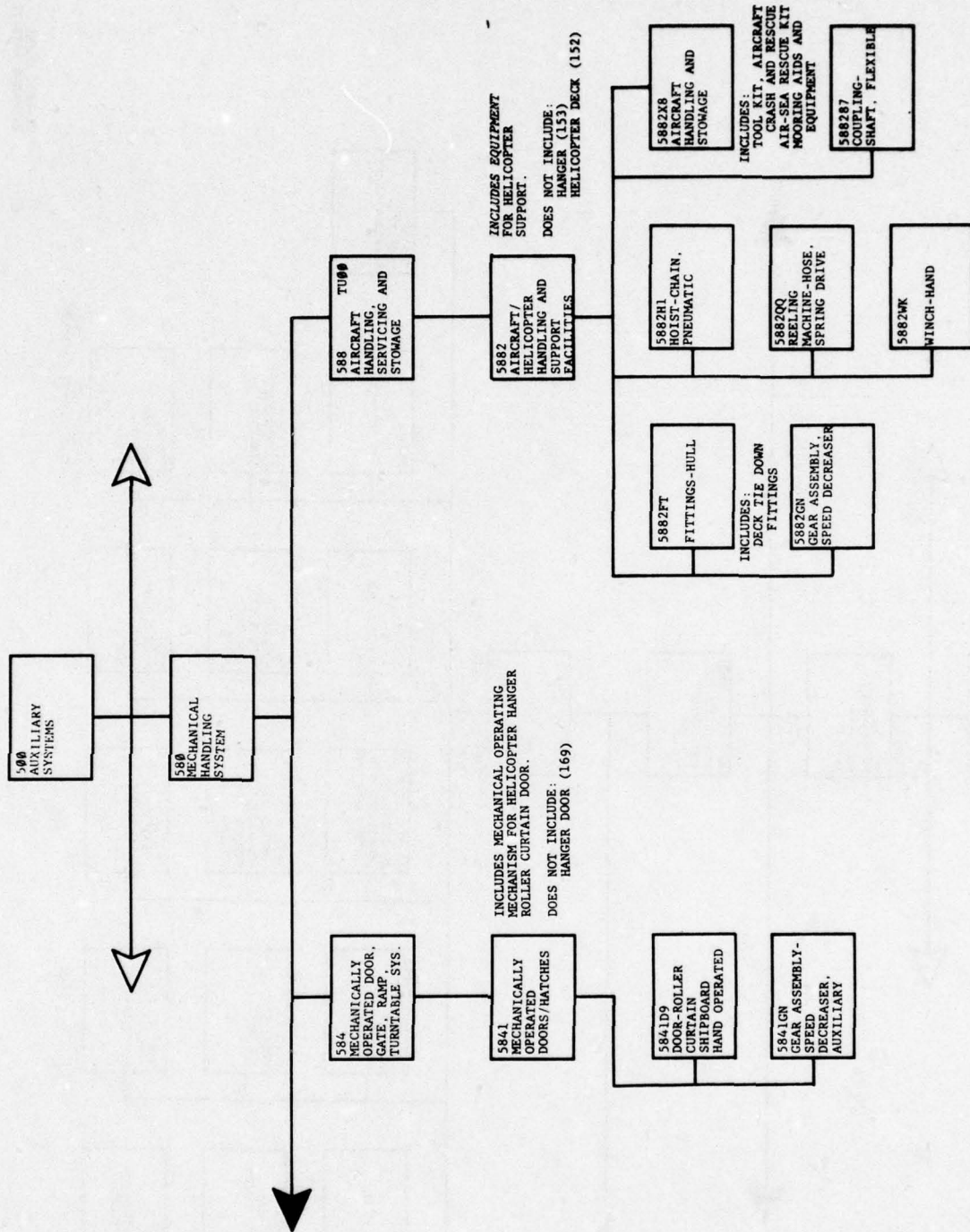


77-1052 CLASS  
PREPARED 7-22-77

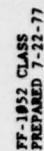




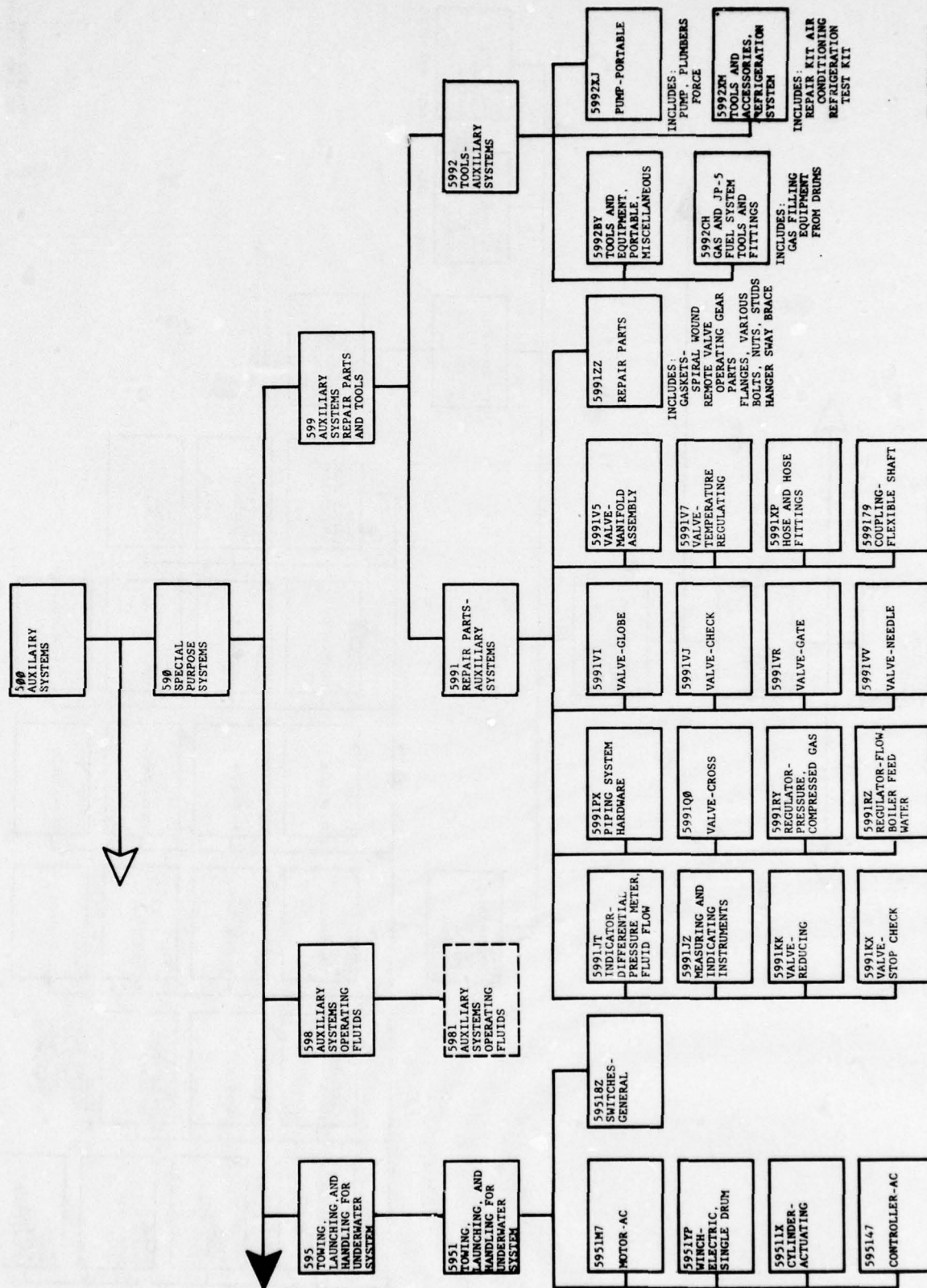




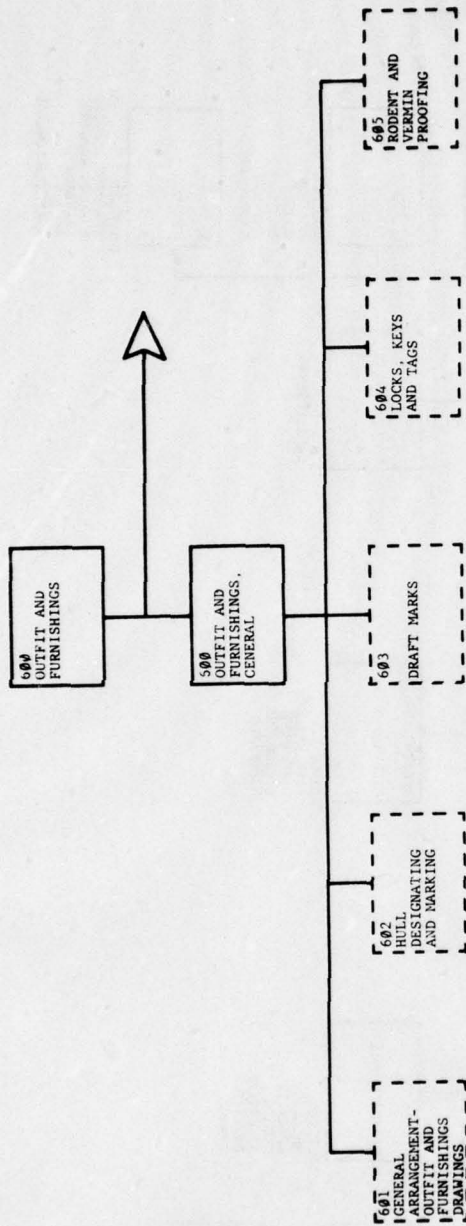
FF-1052 CLASS  
 PREPARED 7-21-77

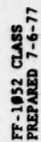




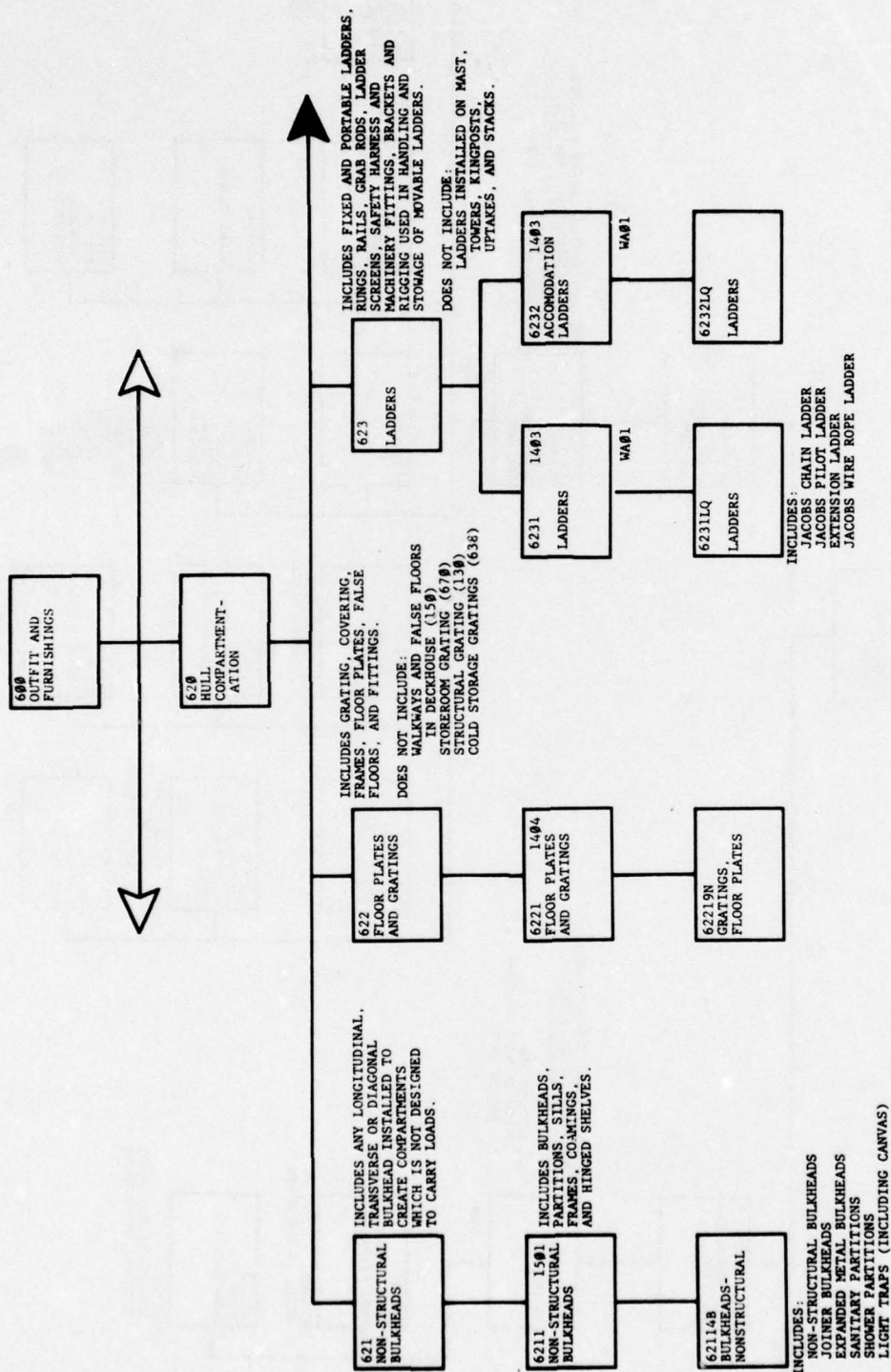


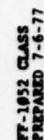
FT-1052 CLASS  
PREPARED 7-22-77

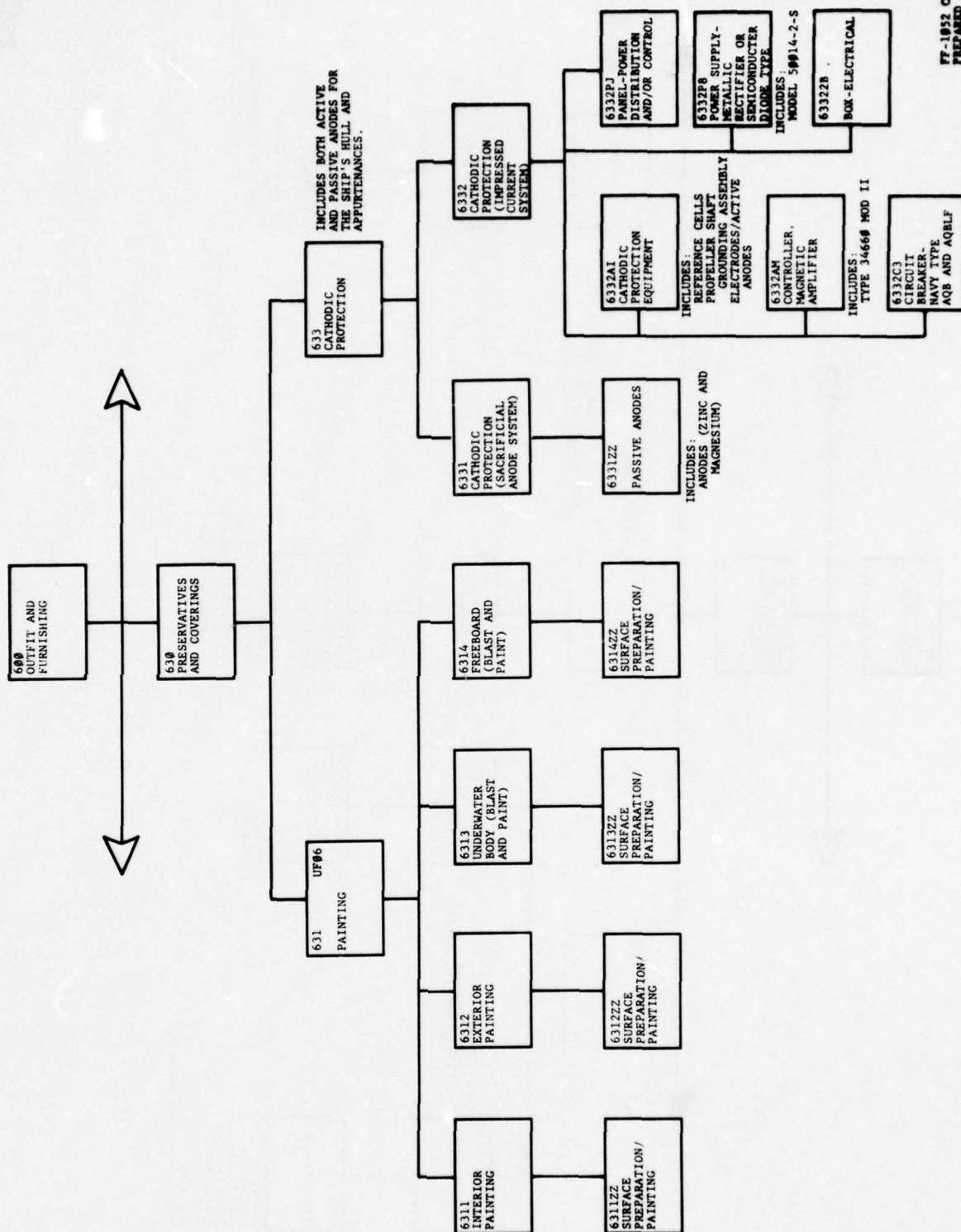






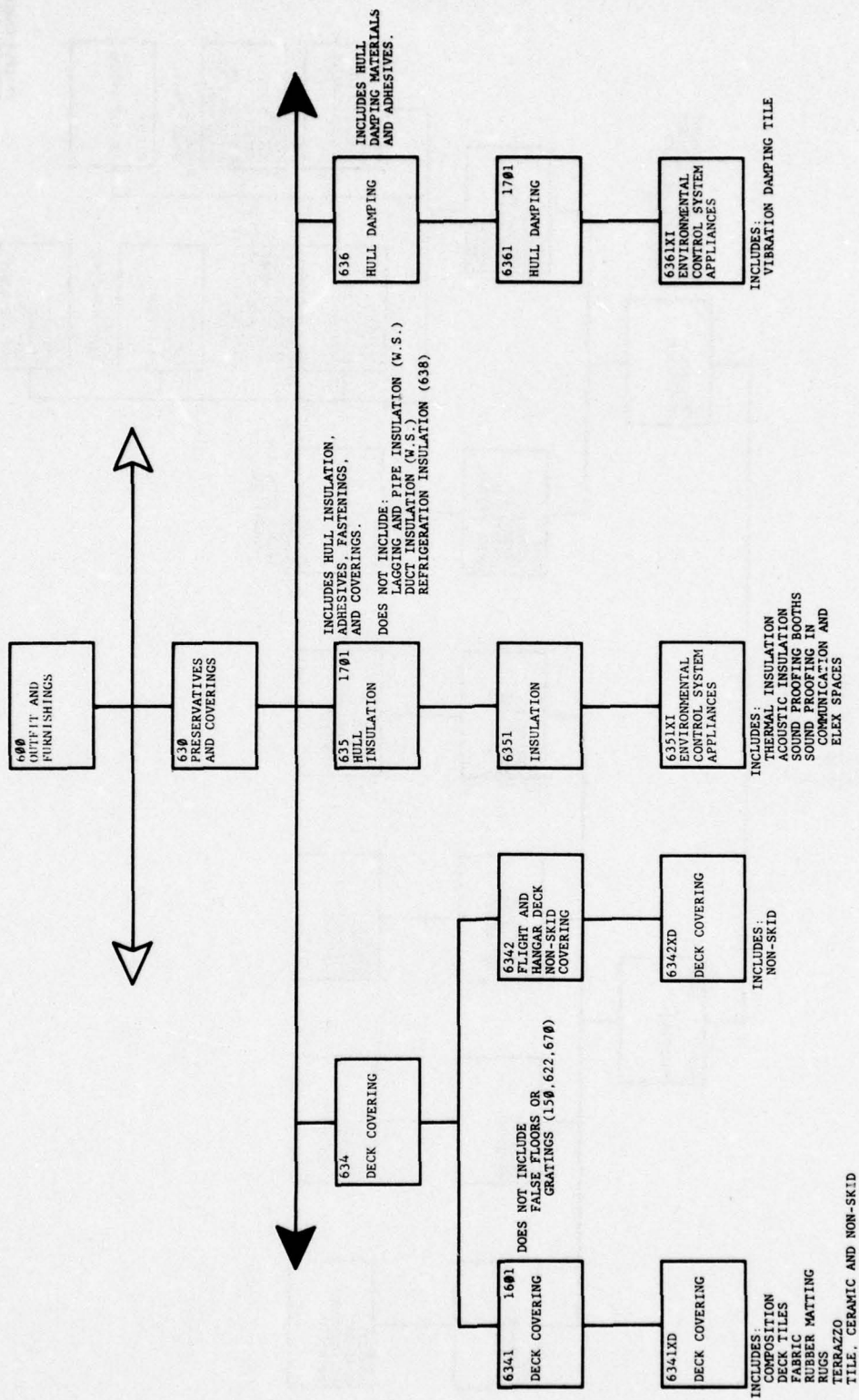


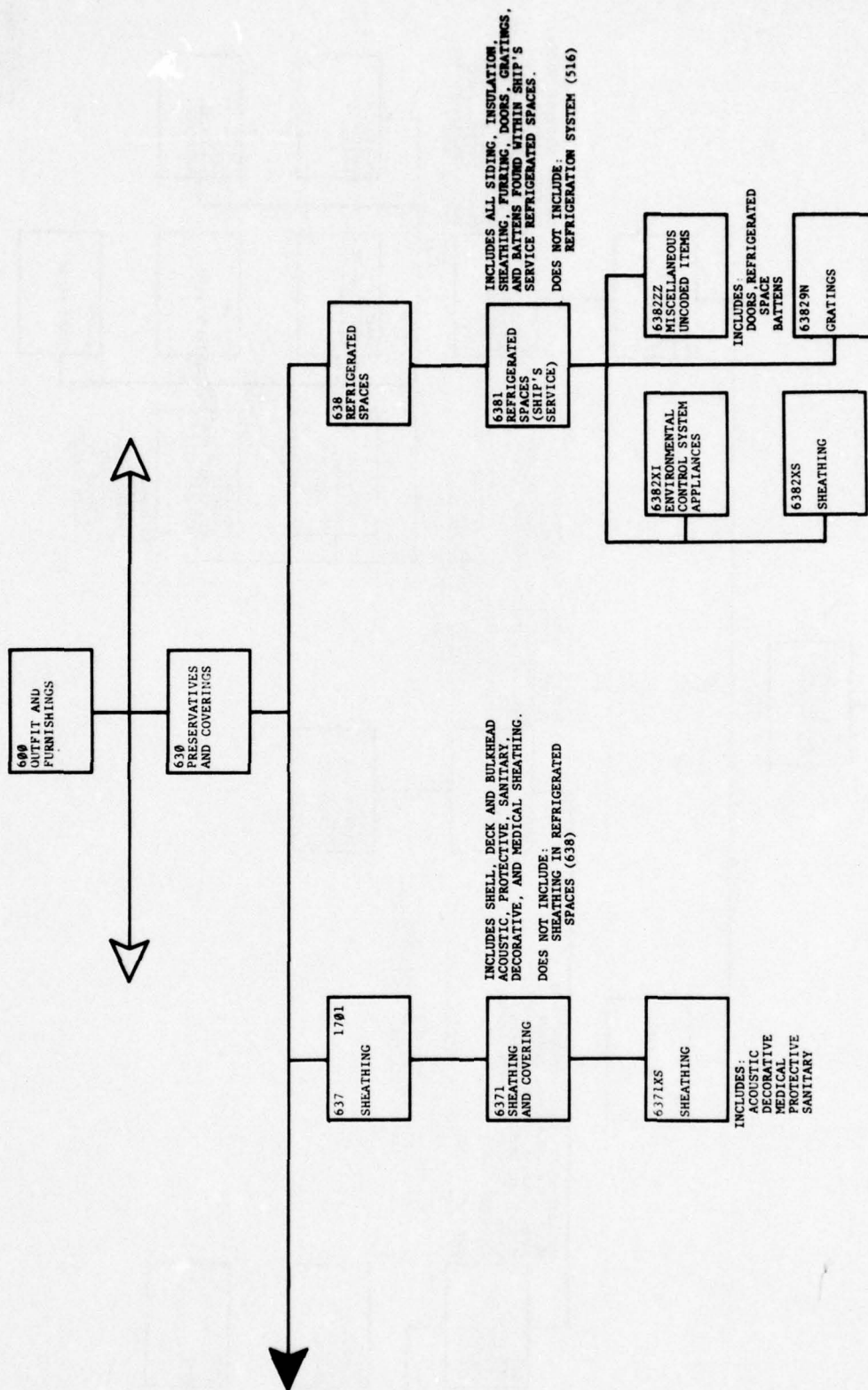


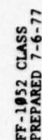


FT-1052 CLASS  
PREPARED 7-6-77

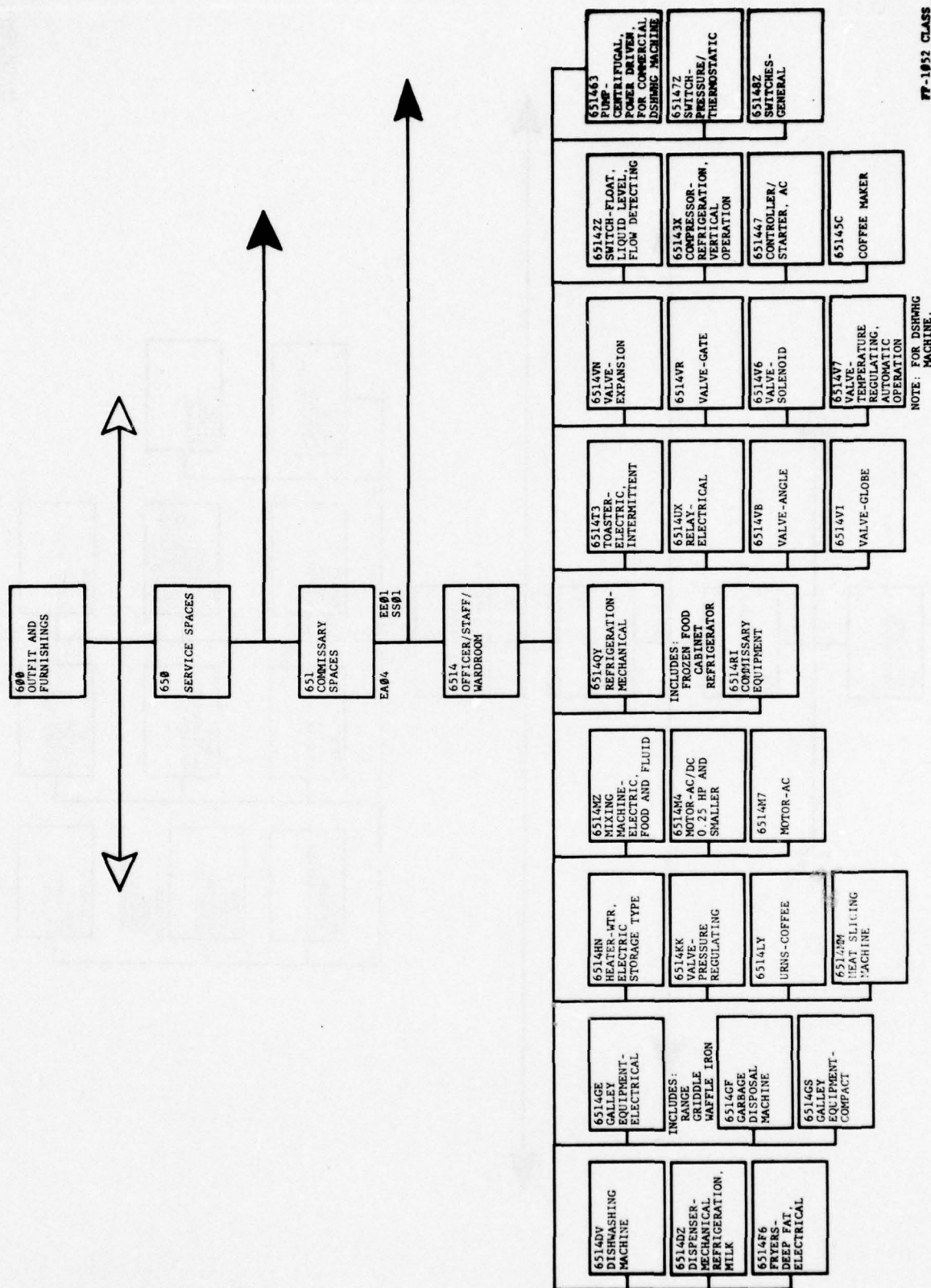






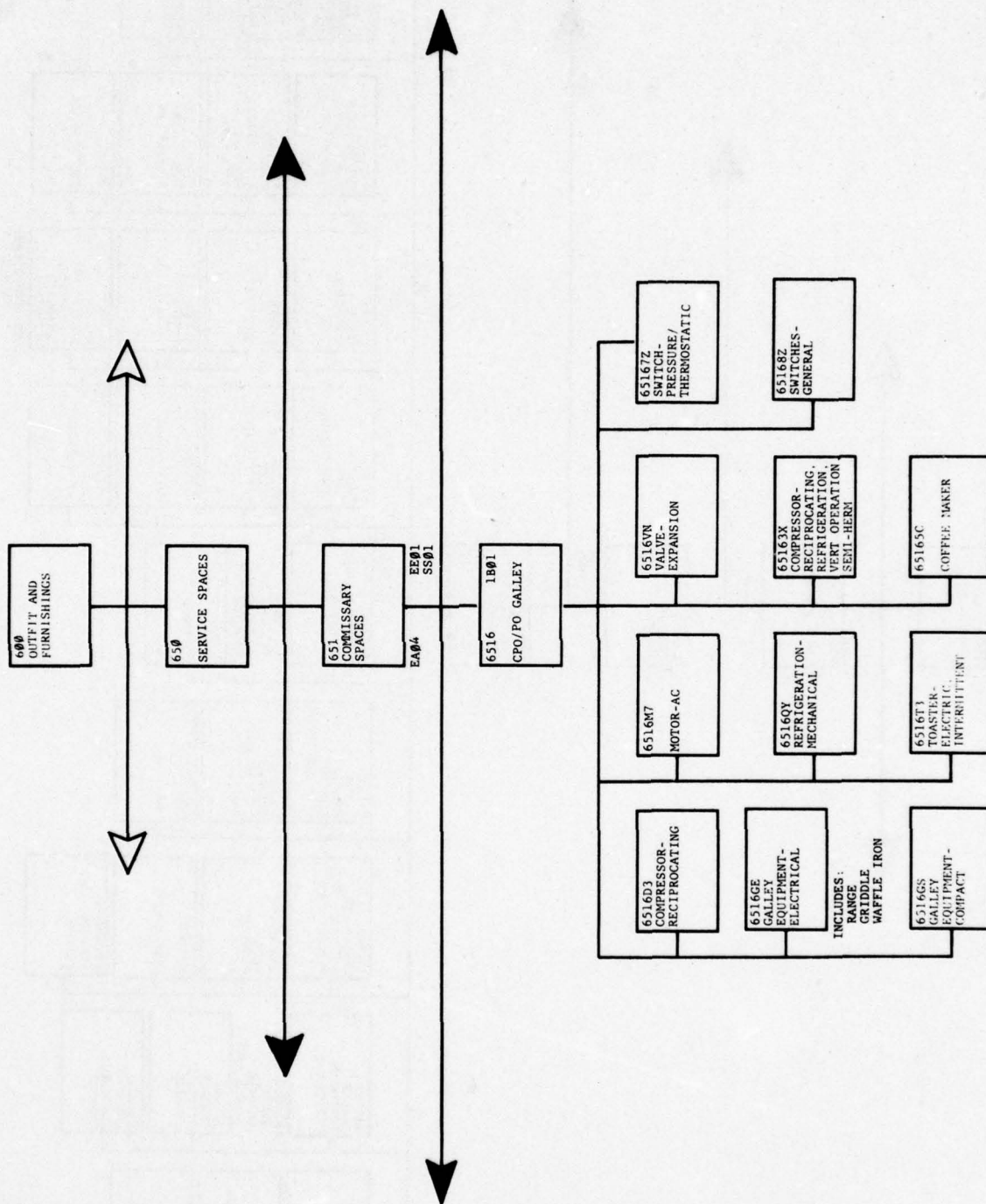




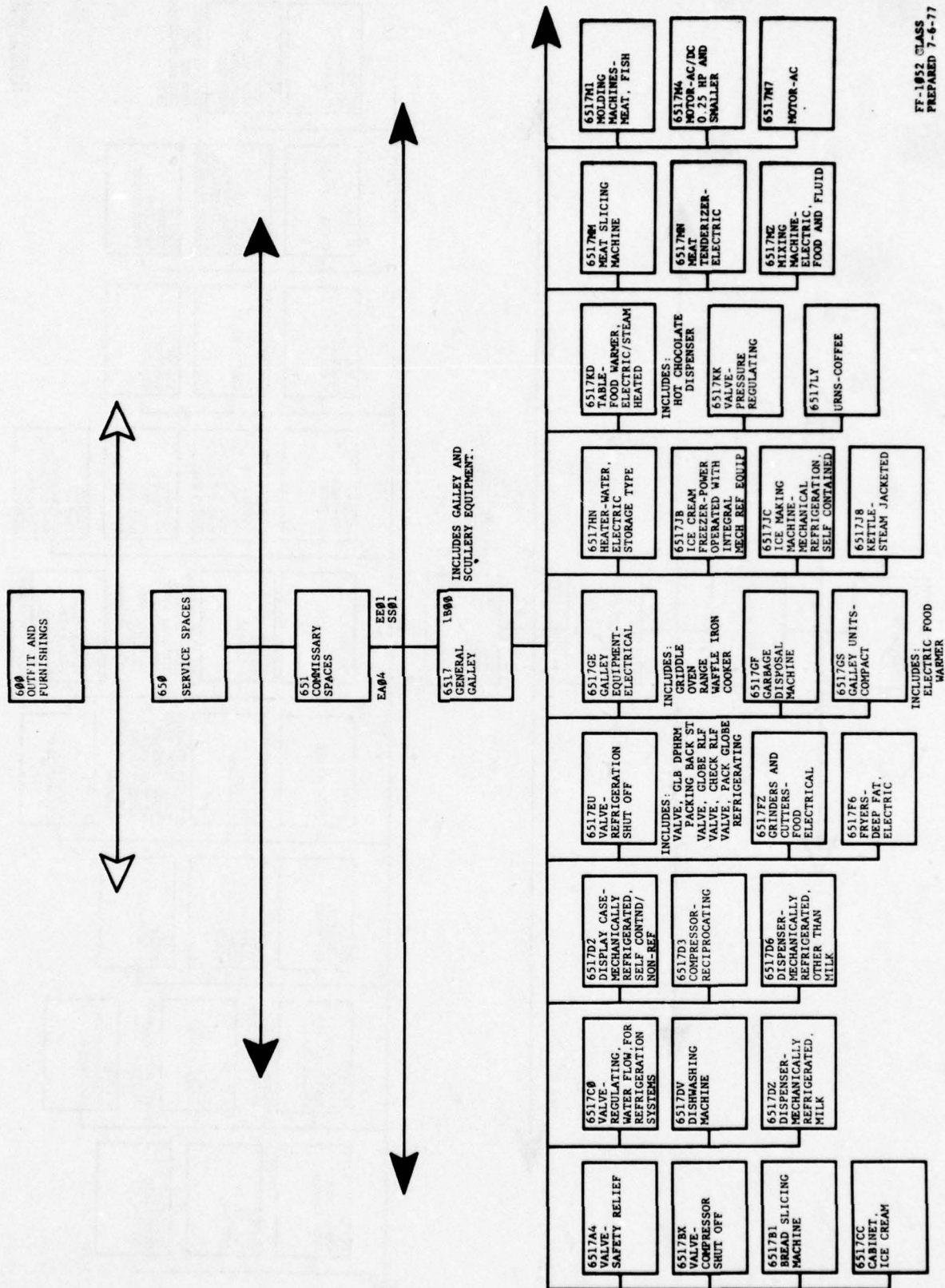


FF-1052 CLASS  
PREPARED 7-6-77

NOTE: FOR DISHWASHING MACHINE.

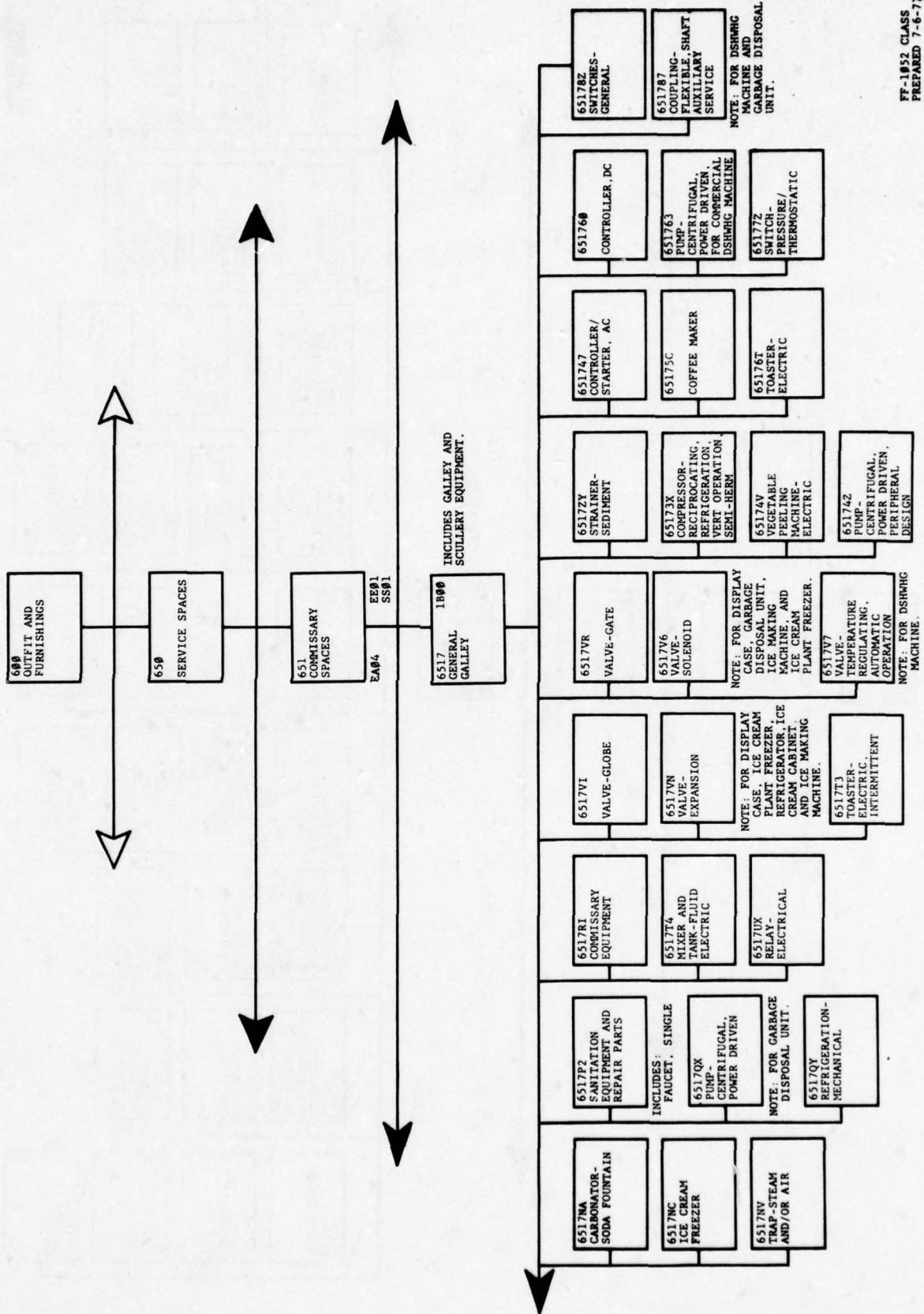


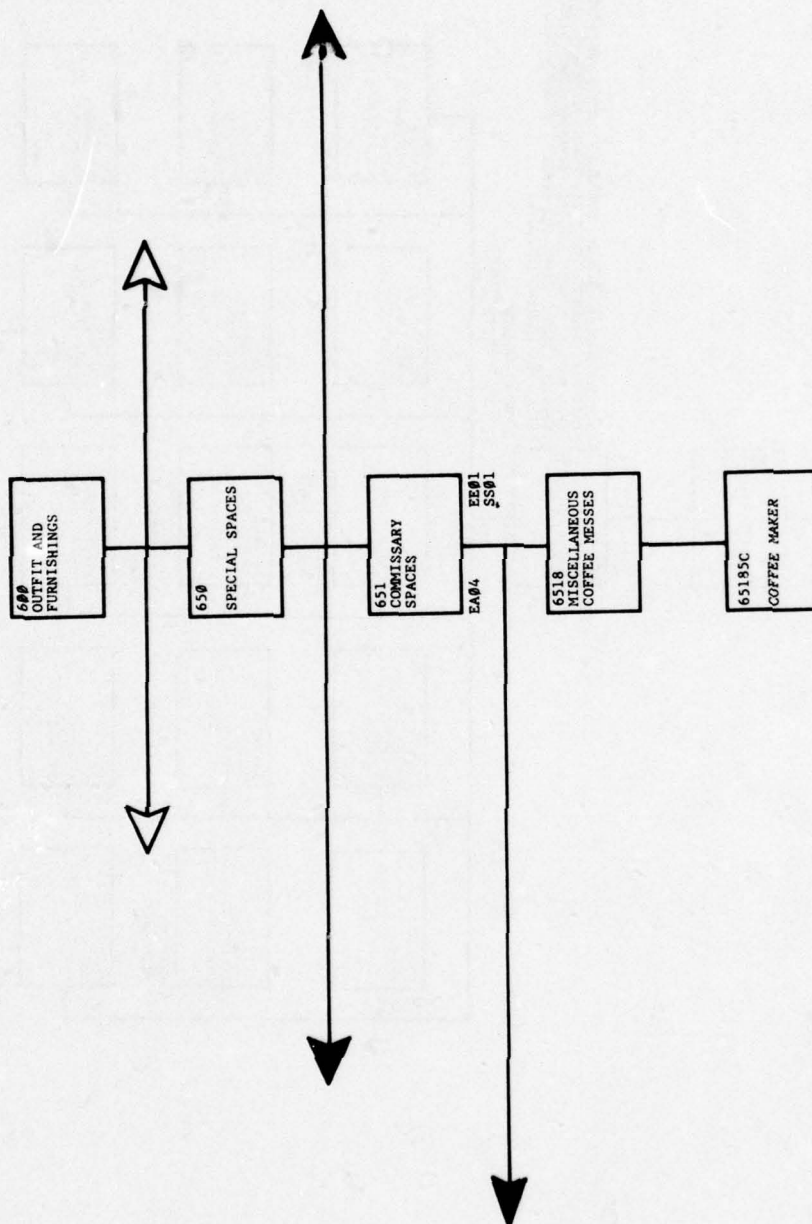
FF-1052 CLASS  
PREPARED 7-6-77

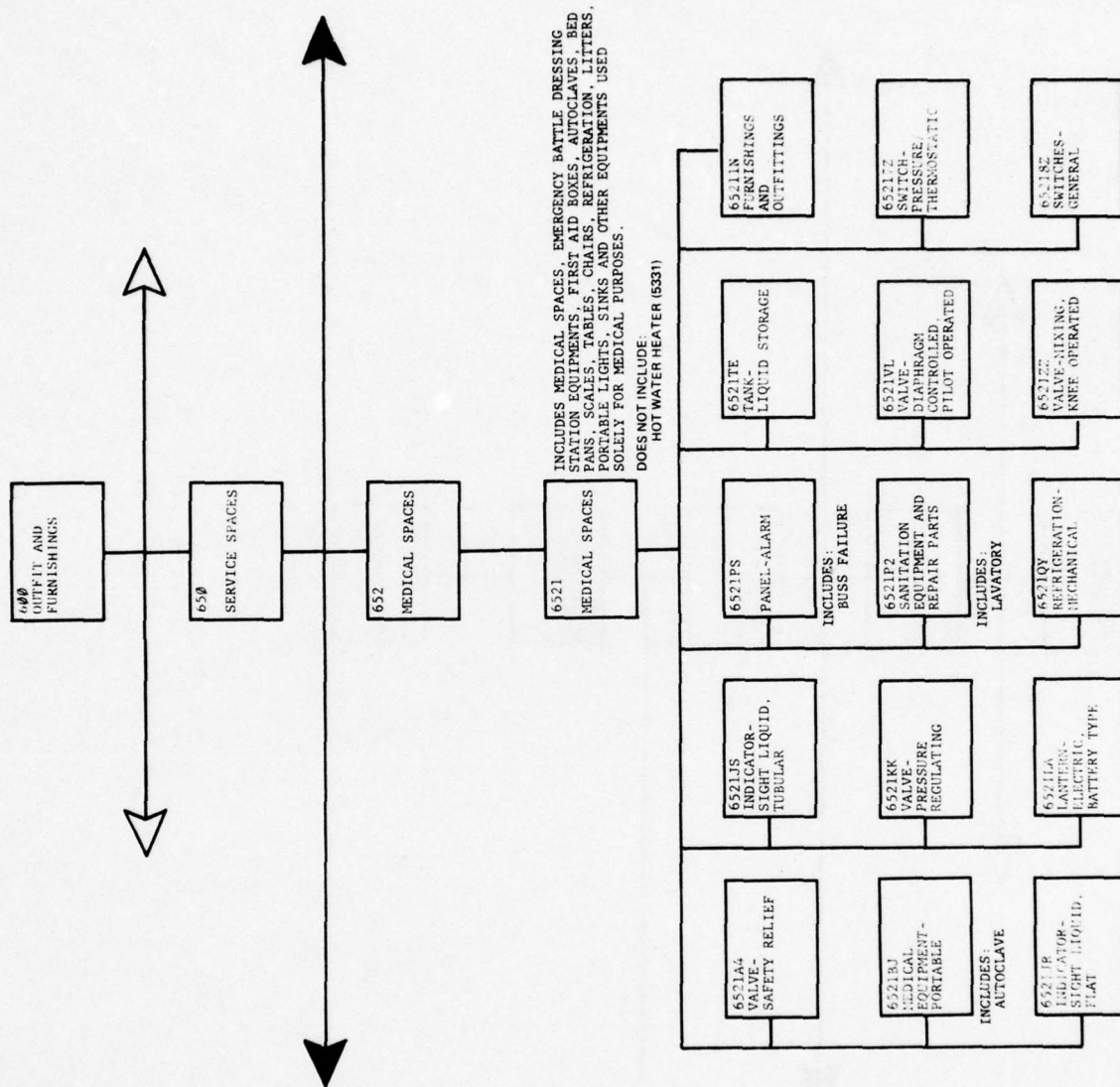


FF-1032 CLASS  
PREPARED 7-6-77

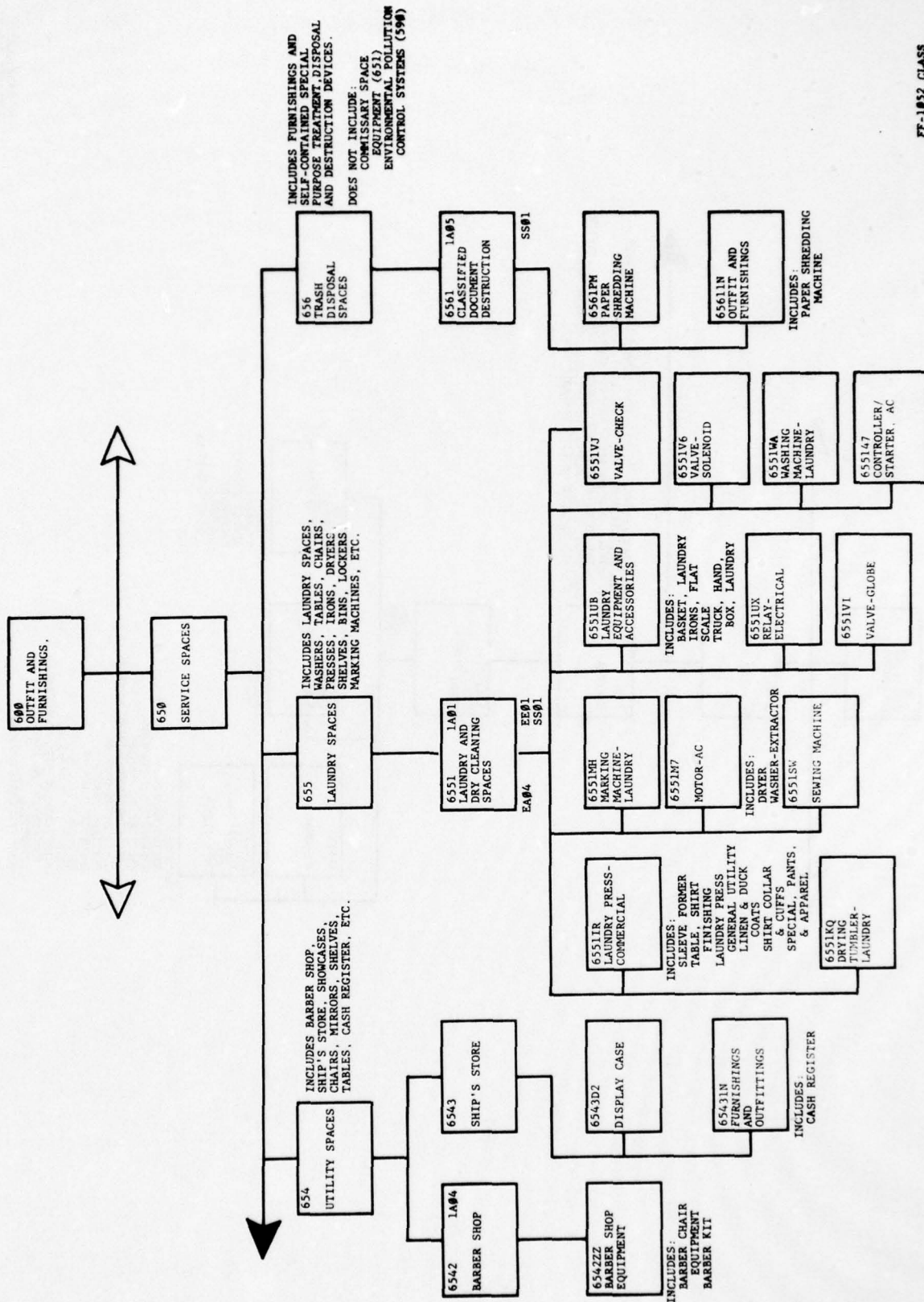


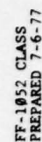


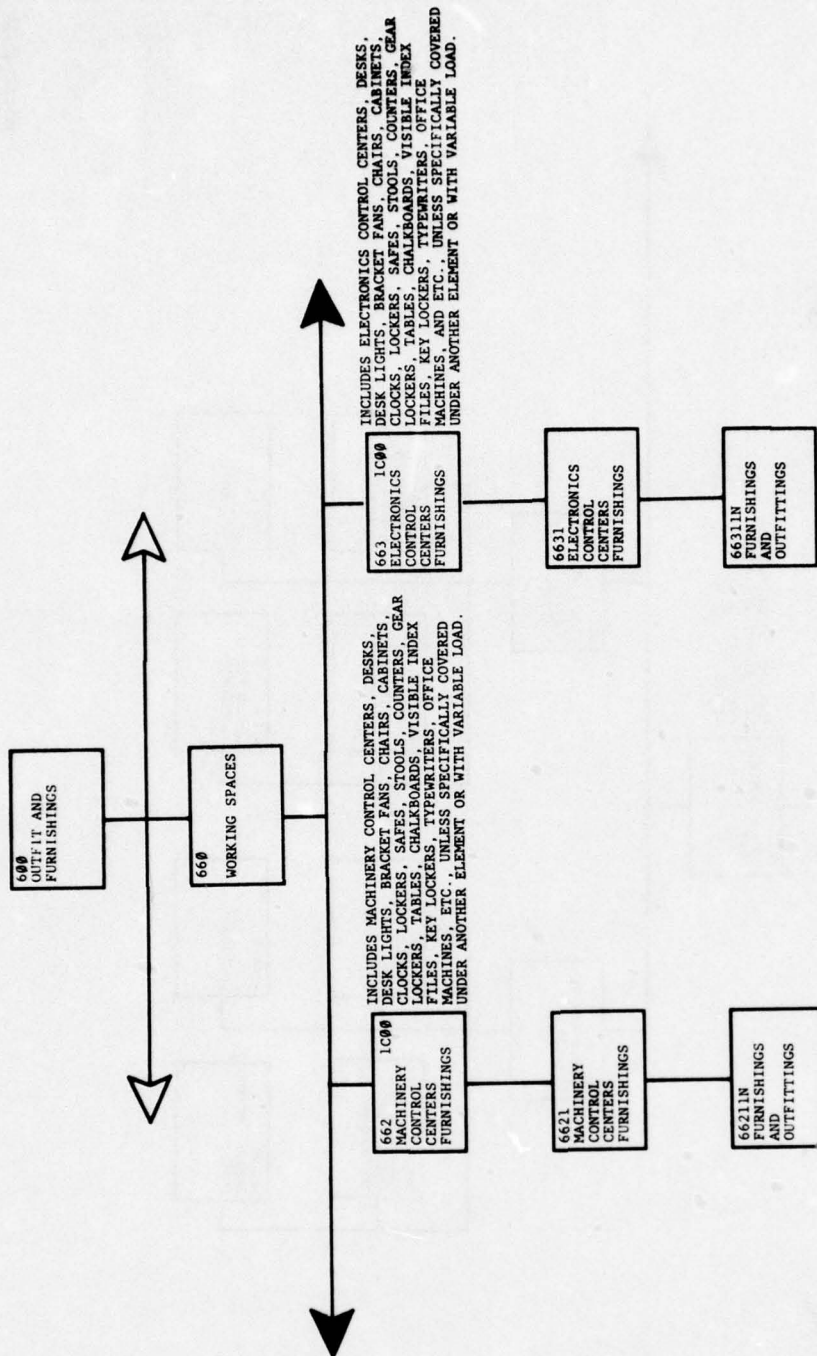




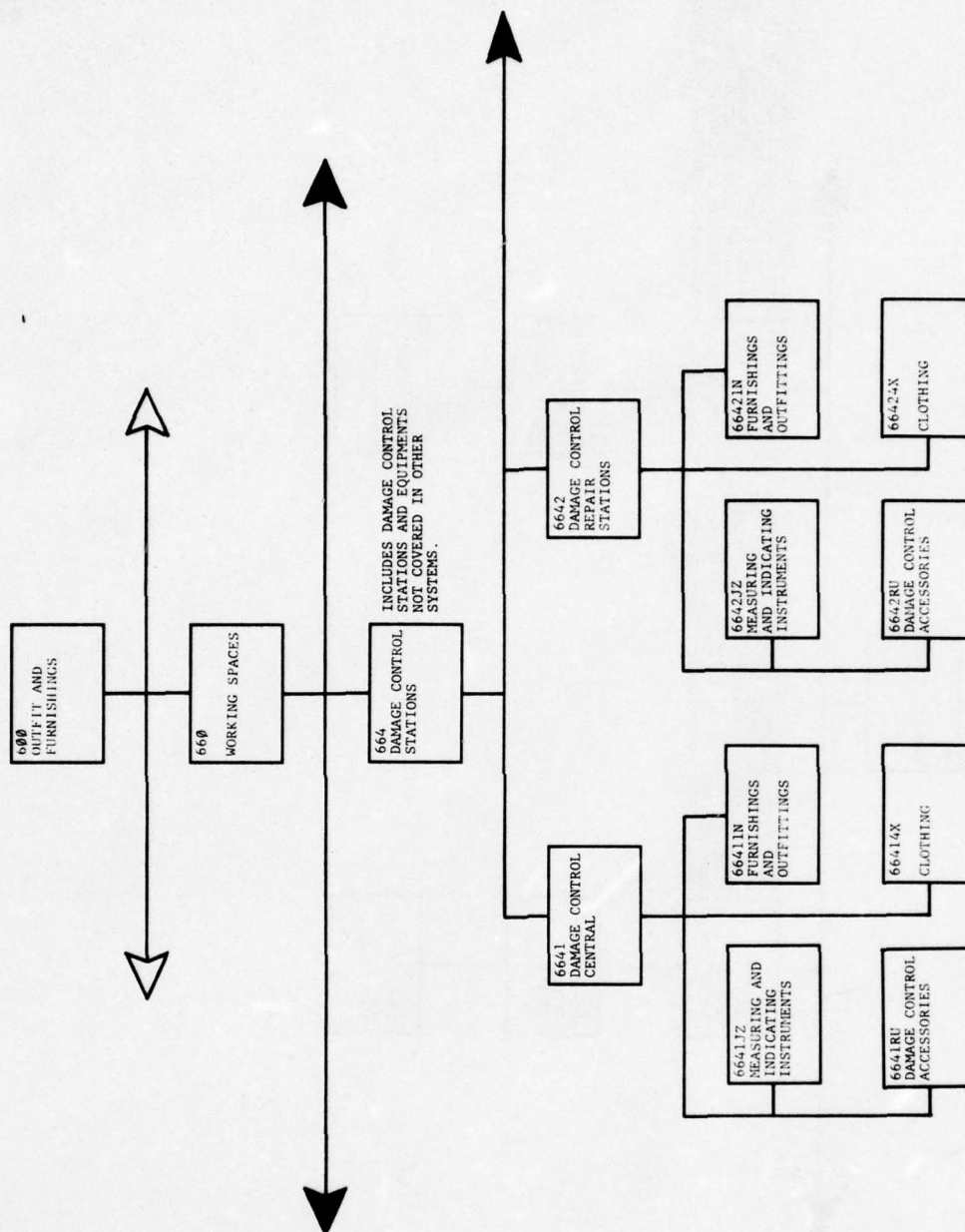


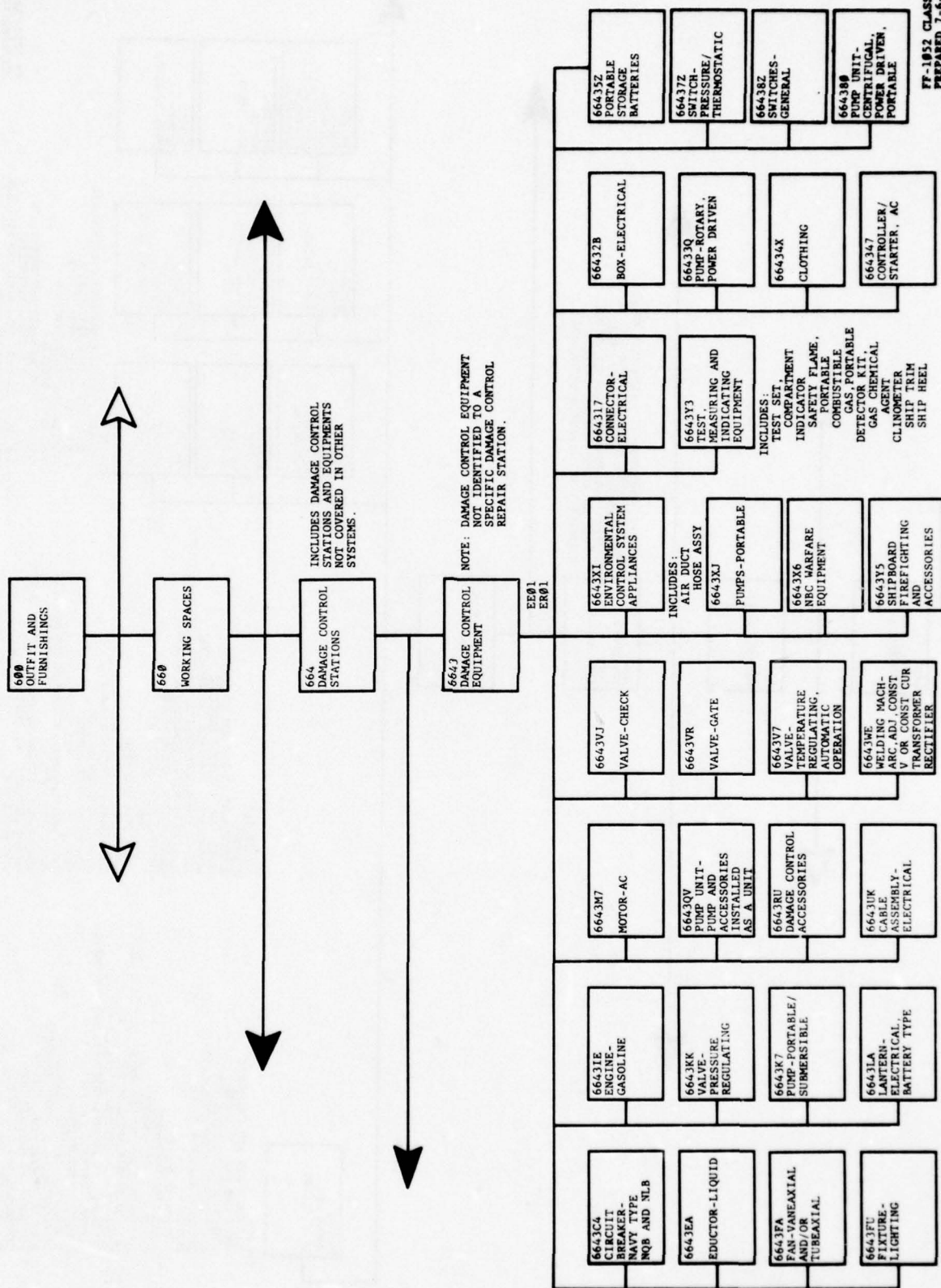








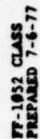


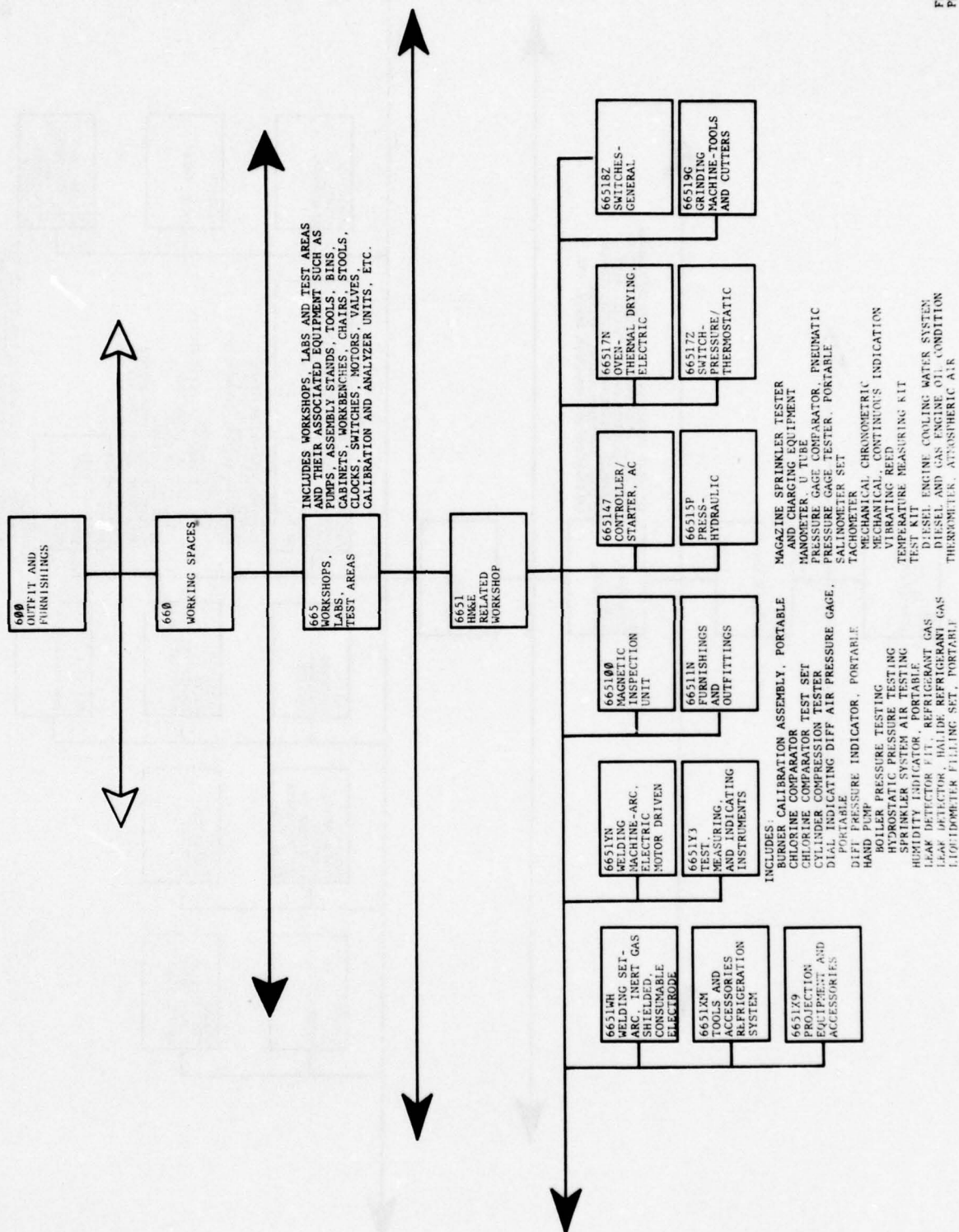


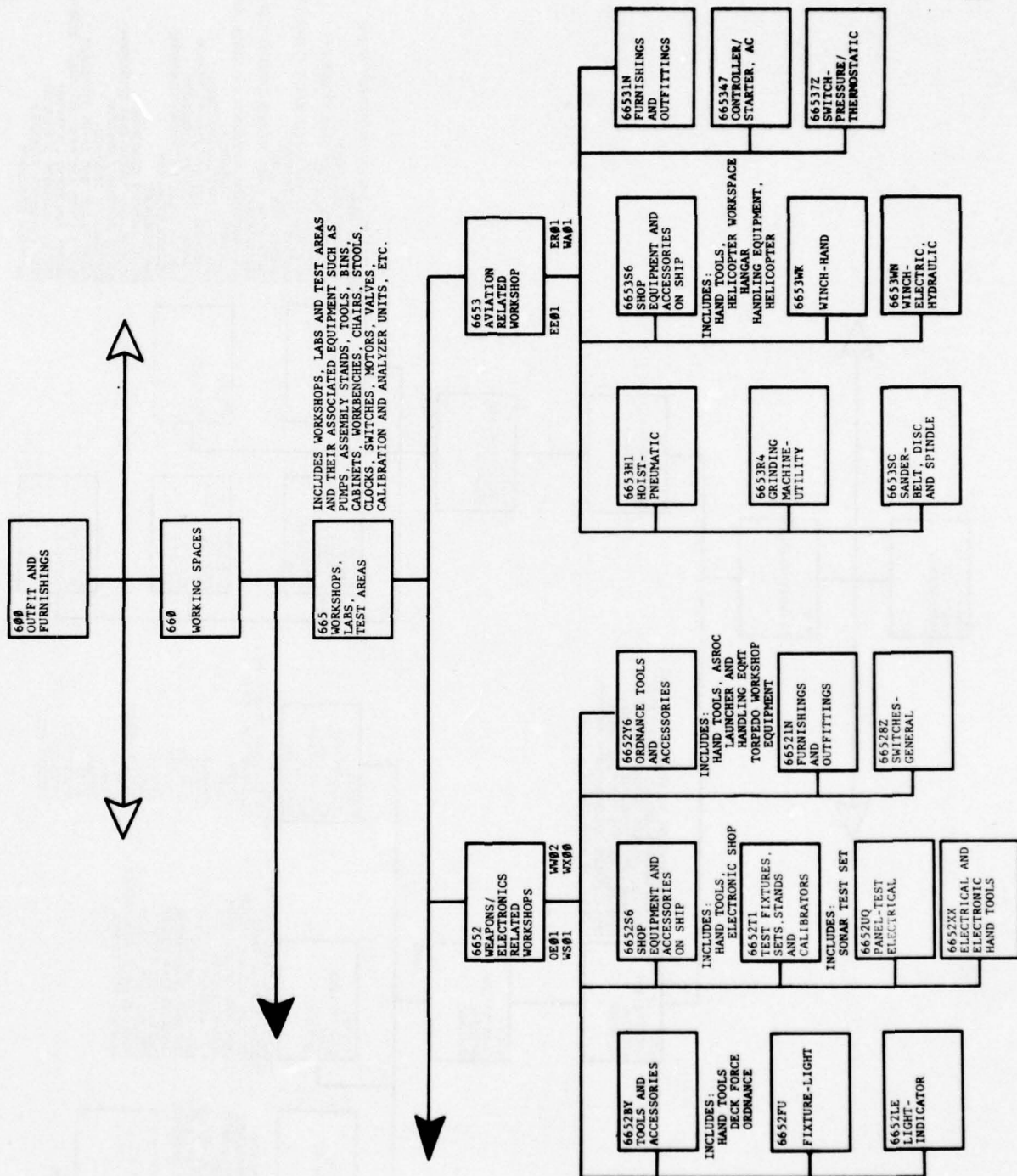
FF-1052 CLASS  
PREPARED 7-6-77



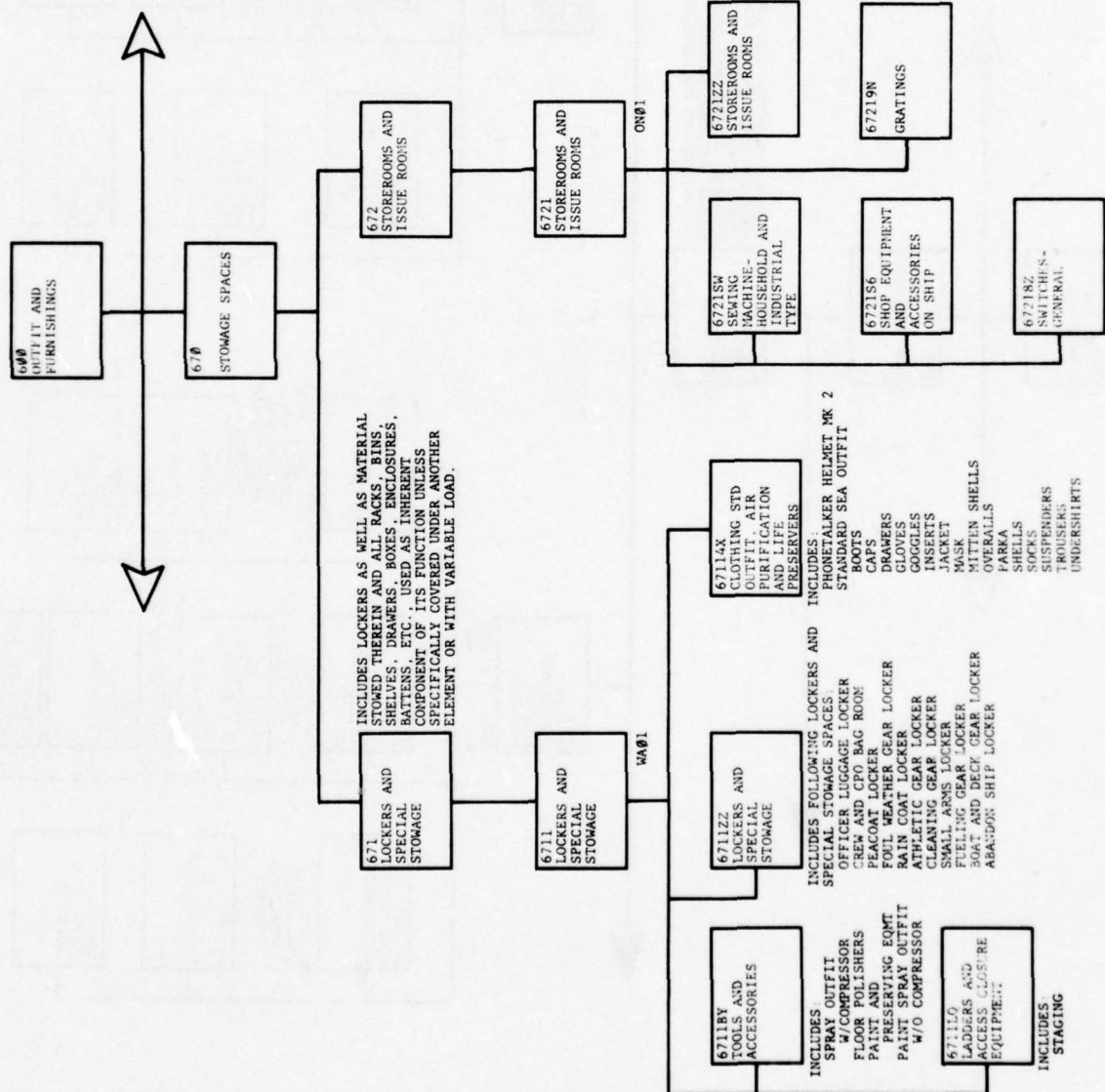




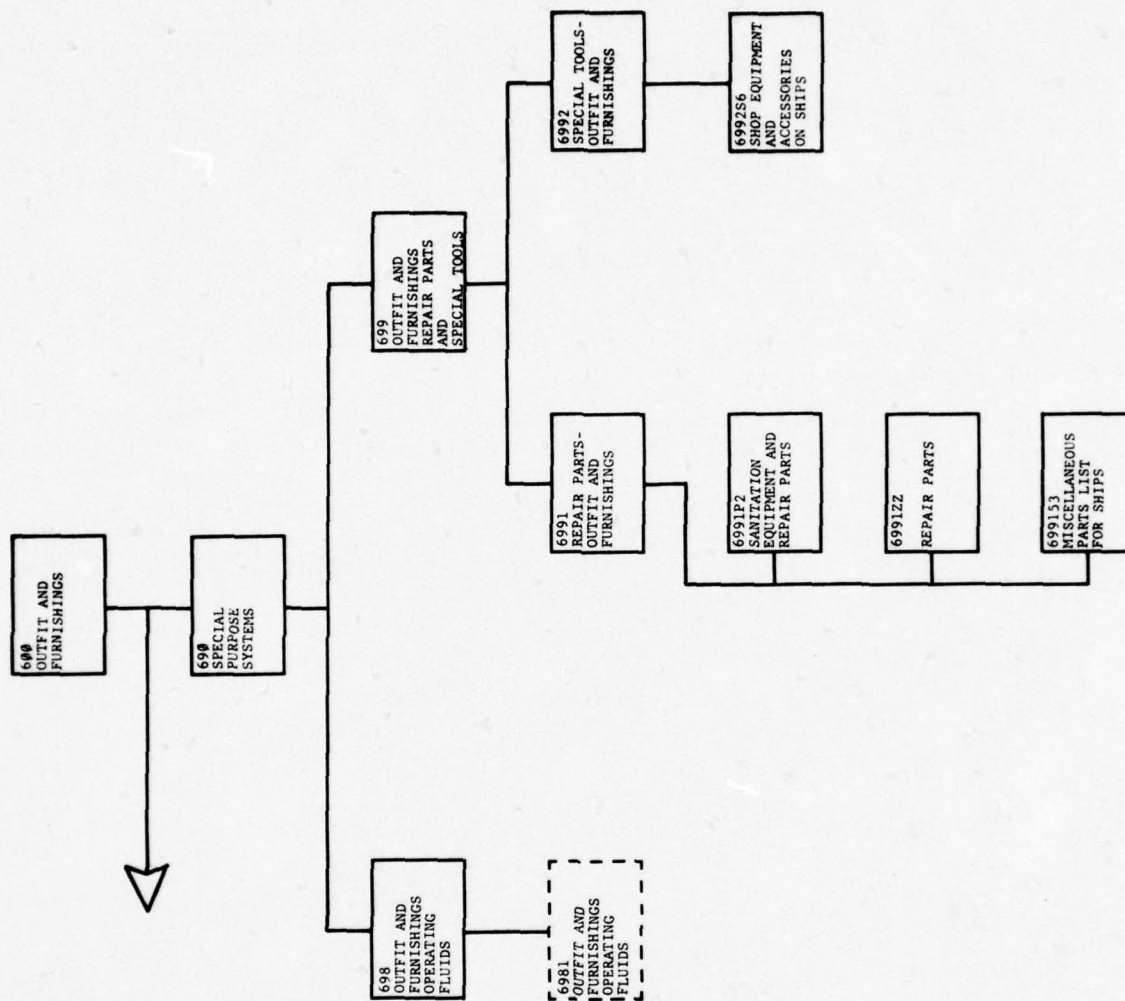




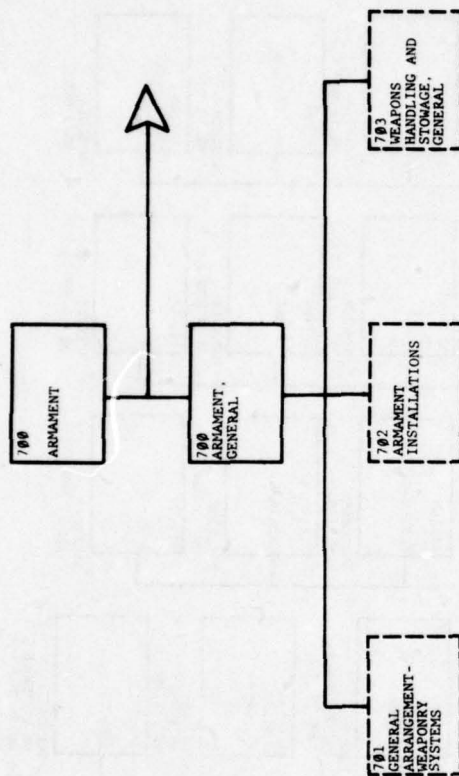




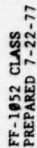
FF-1052 CLASS  
PREPARED 7-6-77

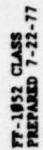


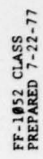
FF-1052 CLASS  
PREPARED 7-6-77



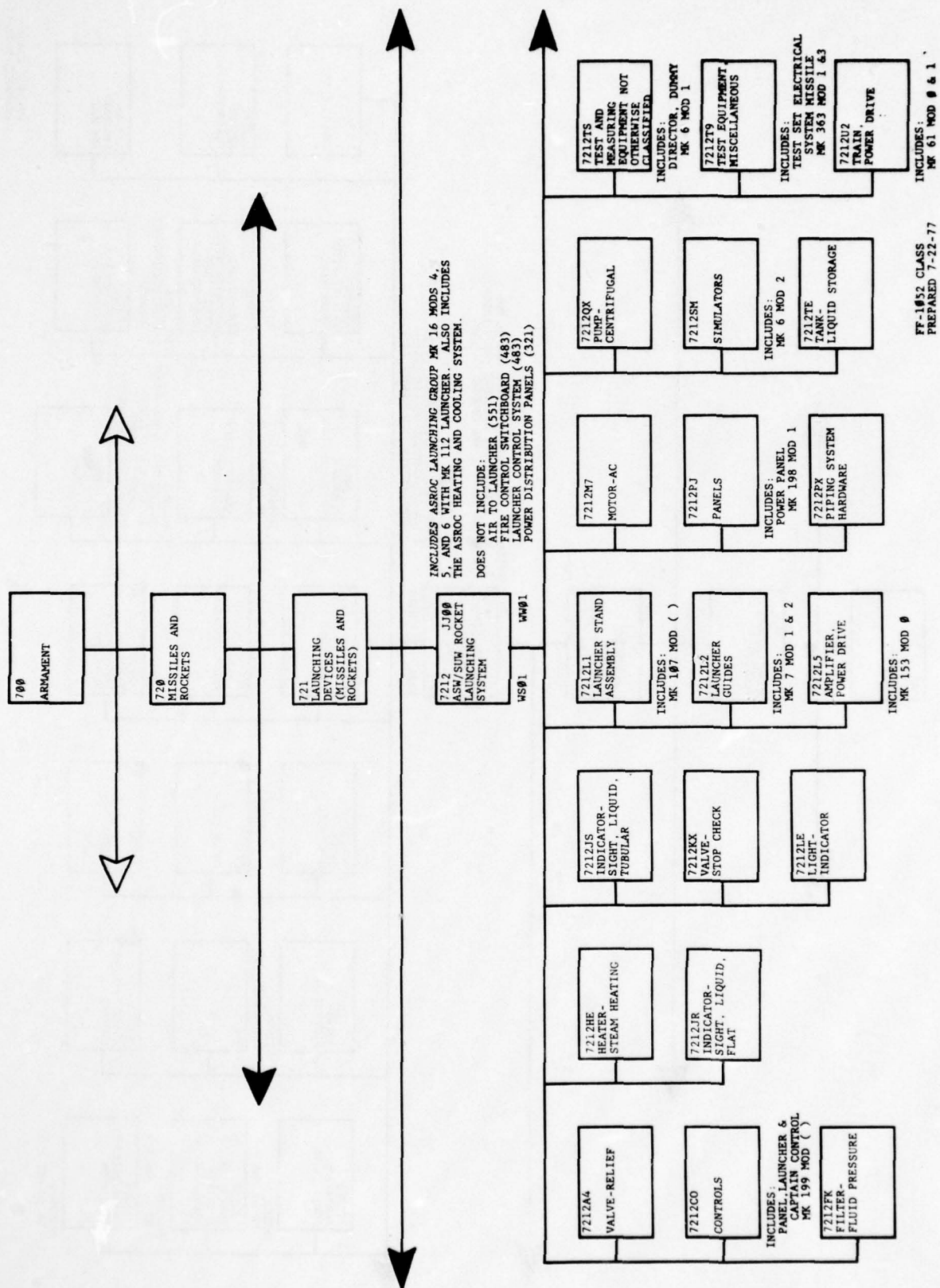




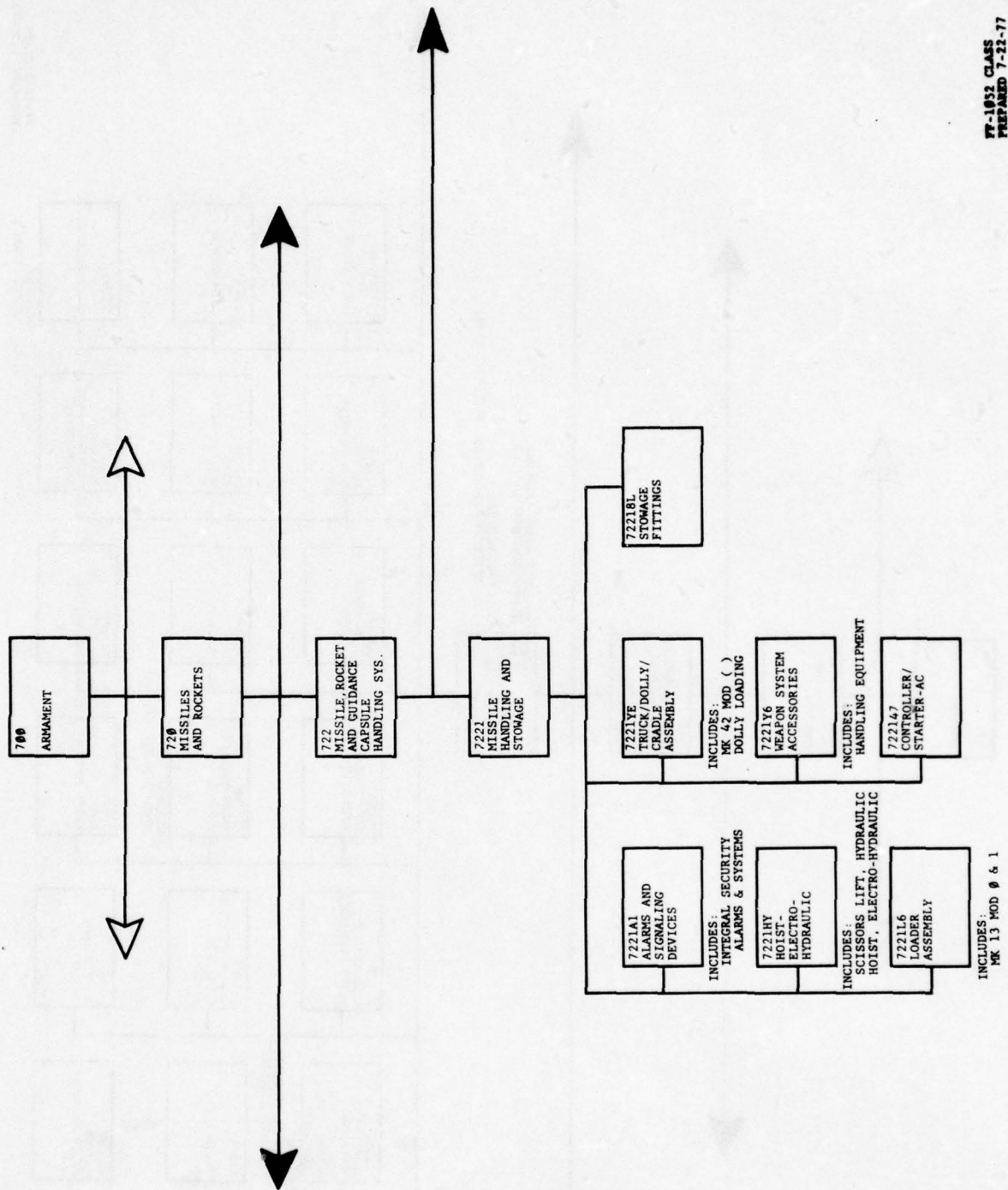






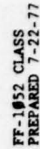


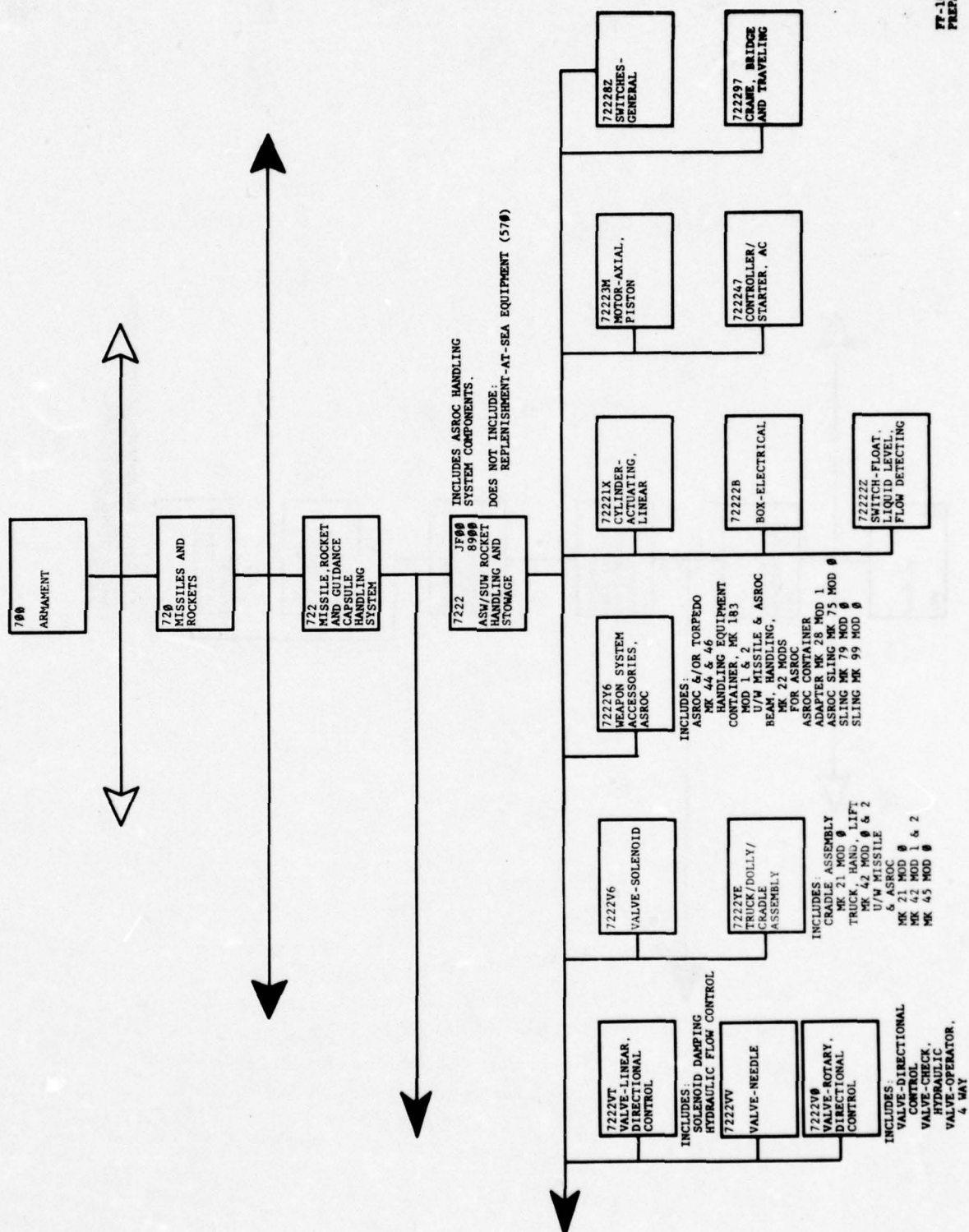


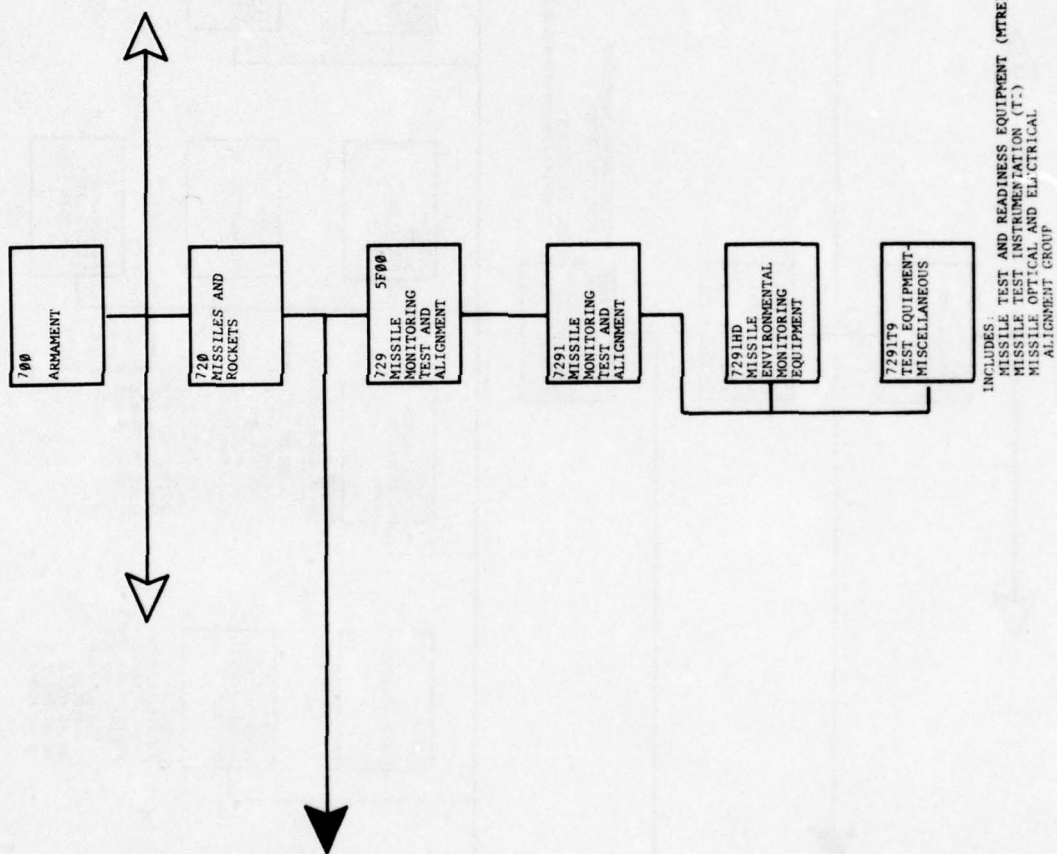


FF-1052 CLASS  
PREPARED 7-22-77

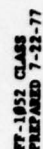


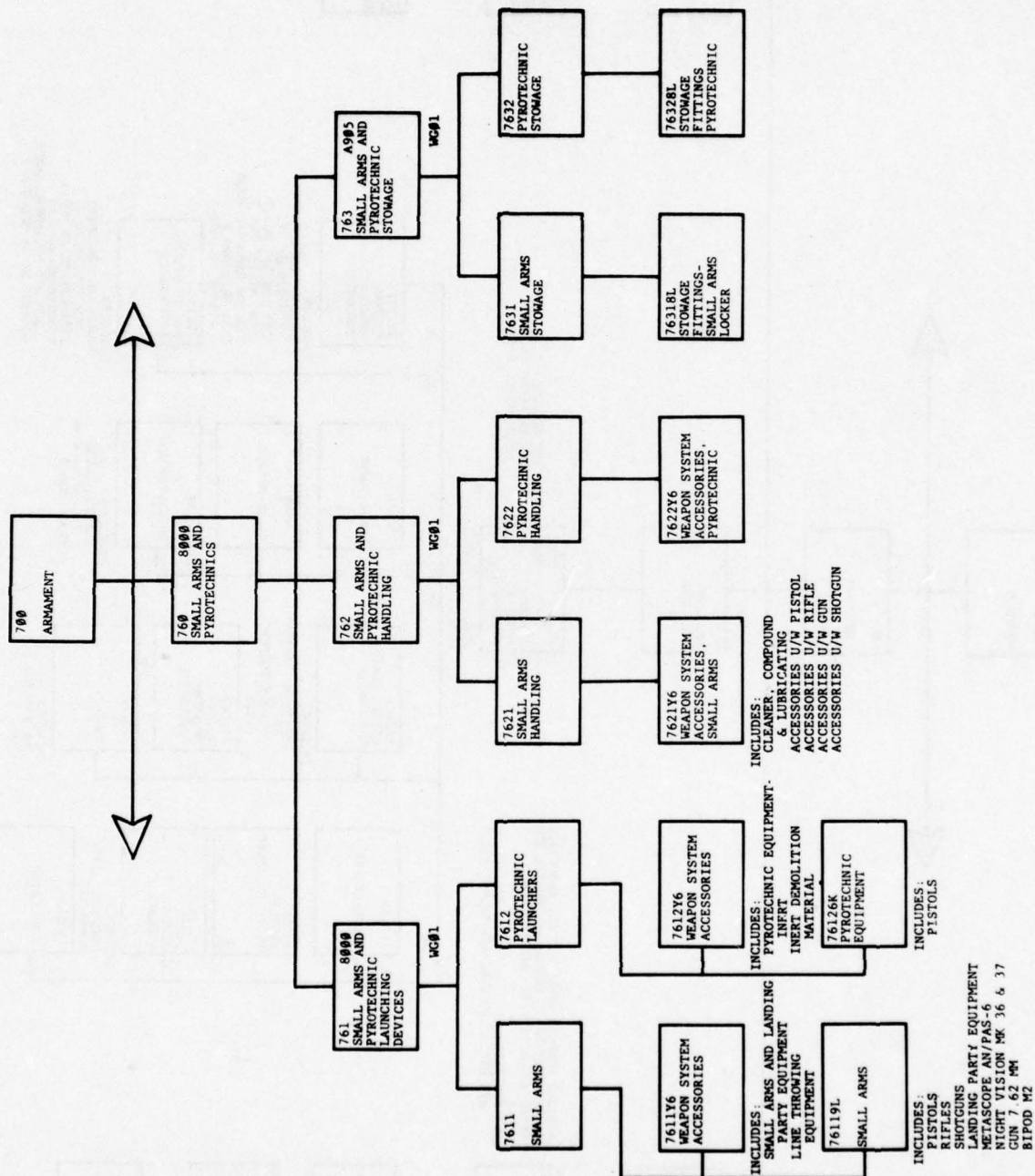




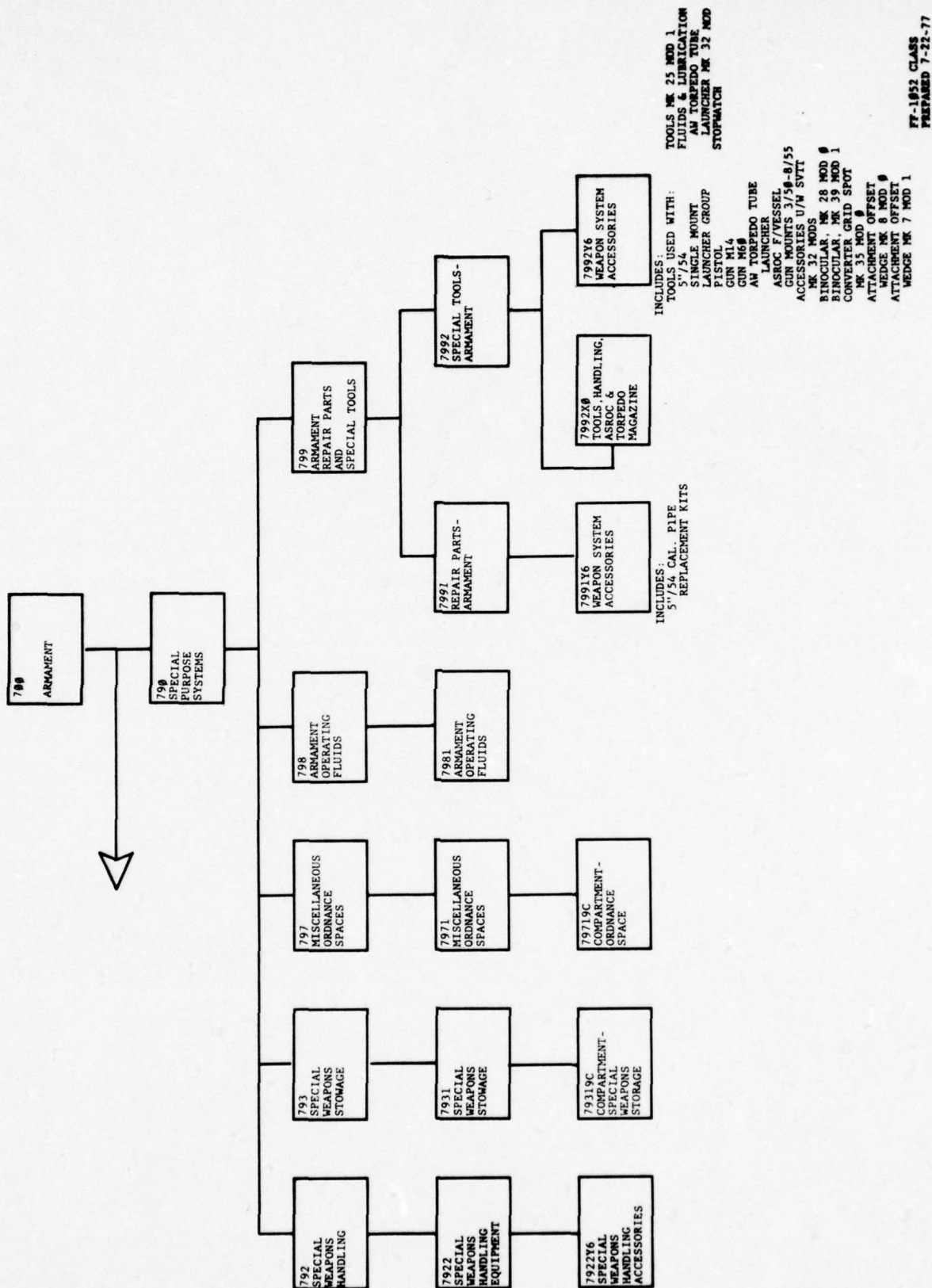






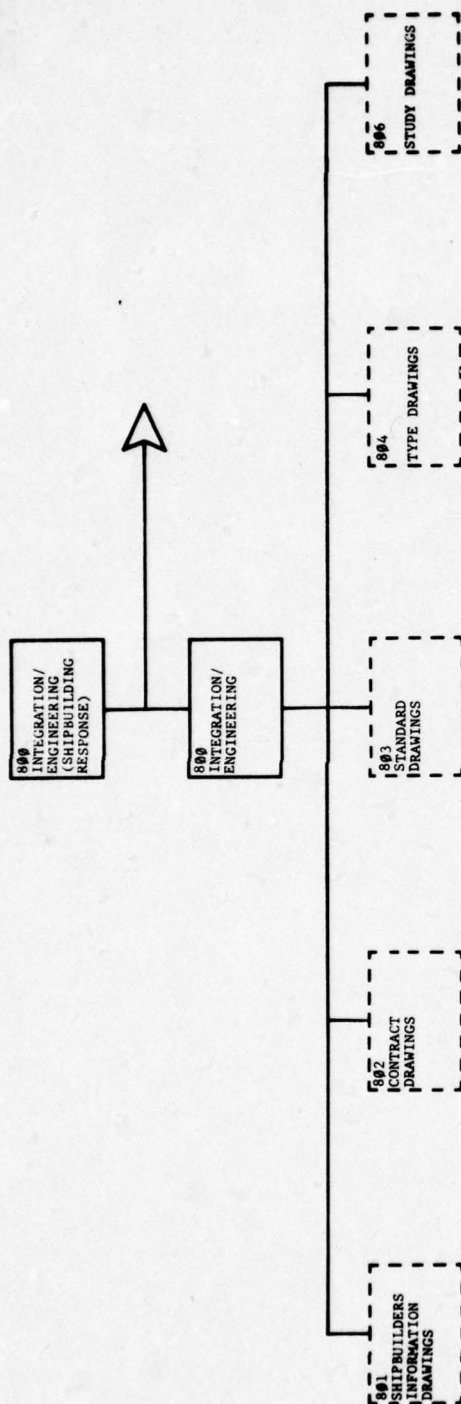


FF-1052 CLASS  
PREPARED 7-22-77

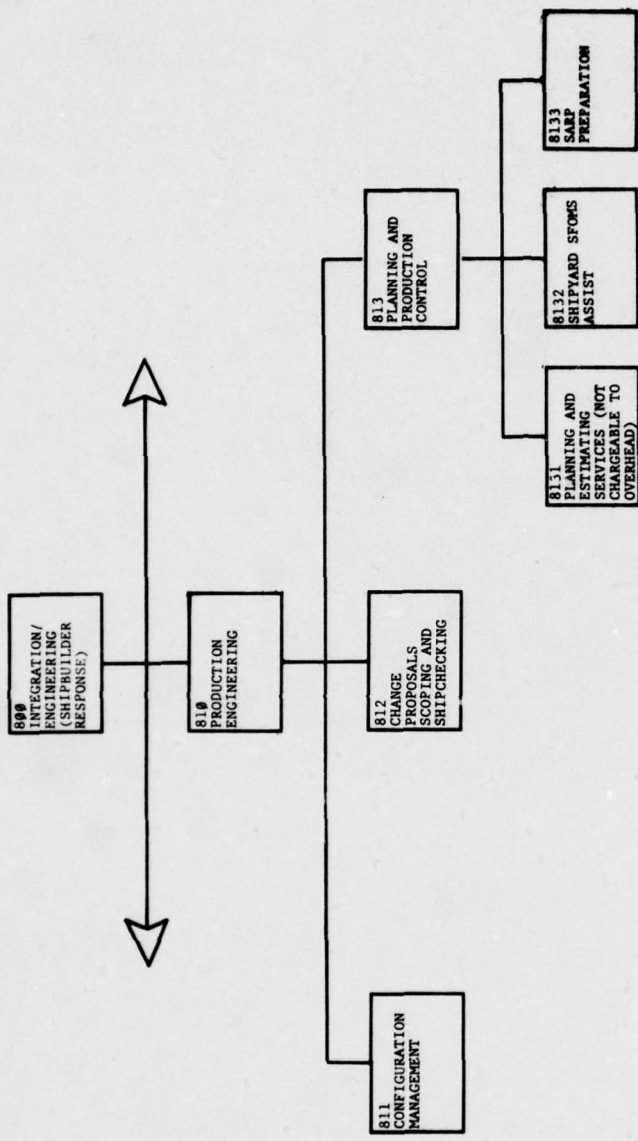


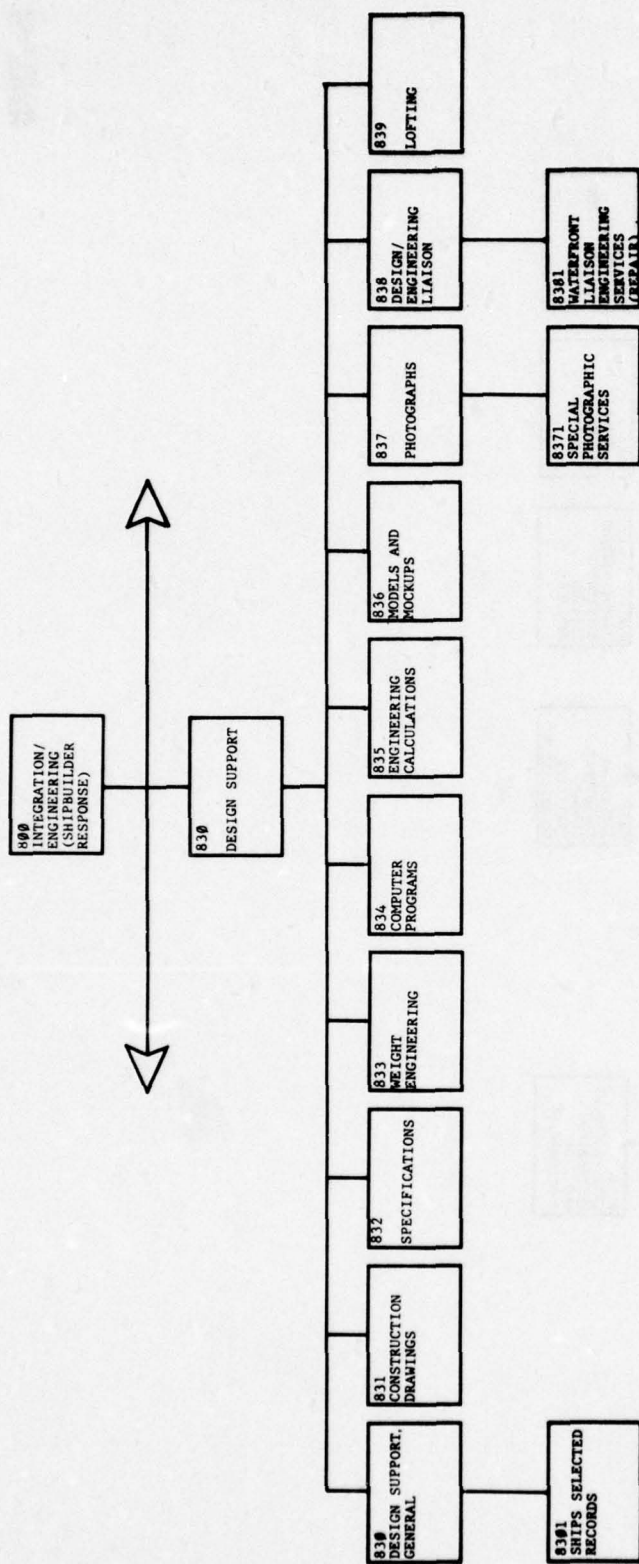
FF-1052 CLASS  
PREPARED 7-22-77



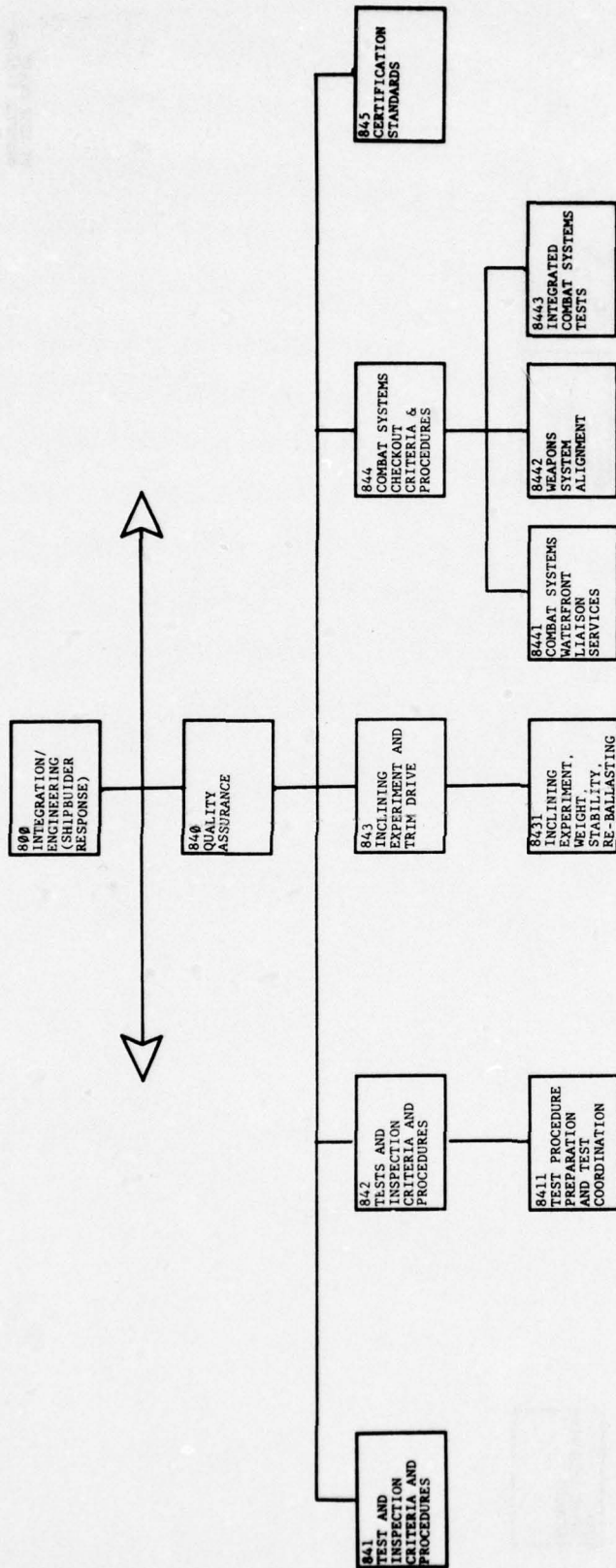


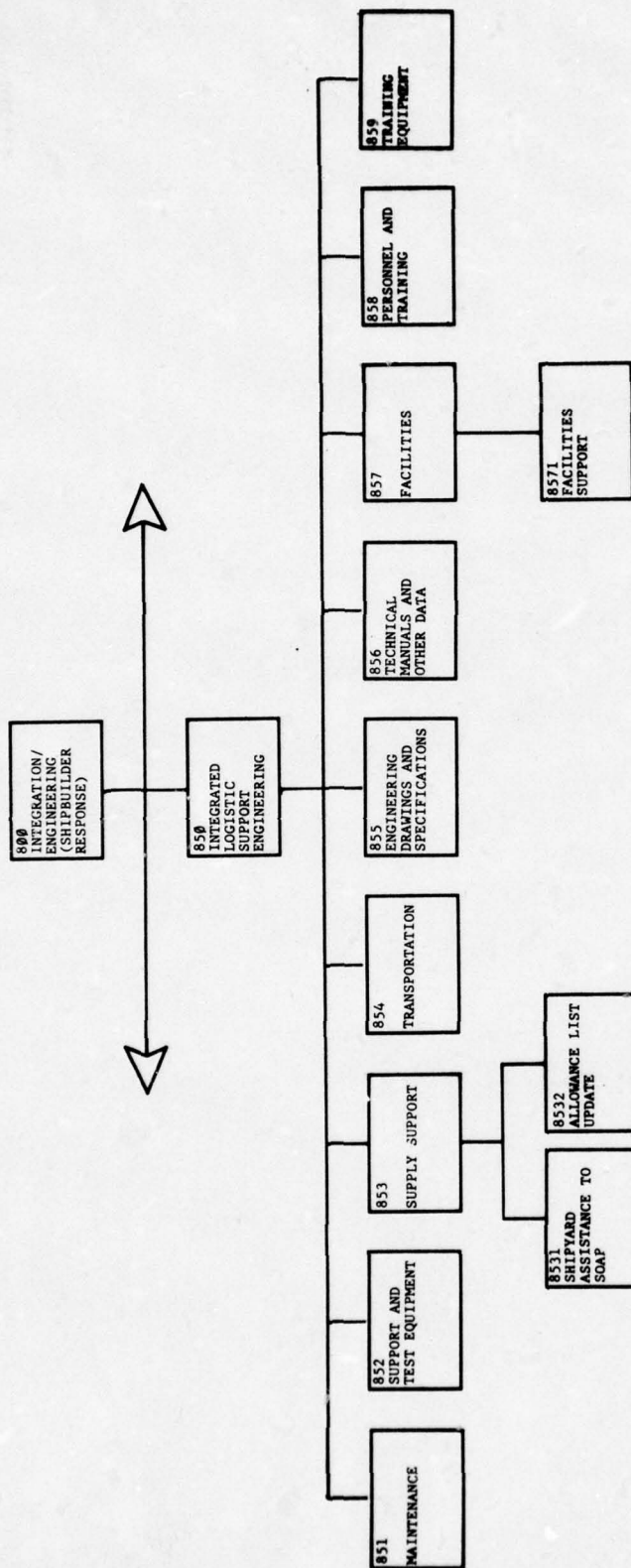
FT-1052 CLASS  
PREPARED 7-22-77



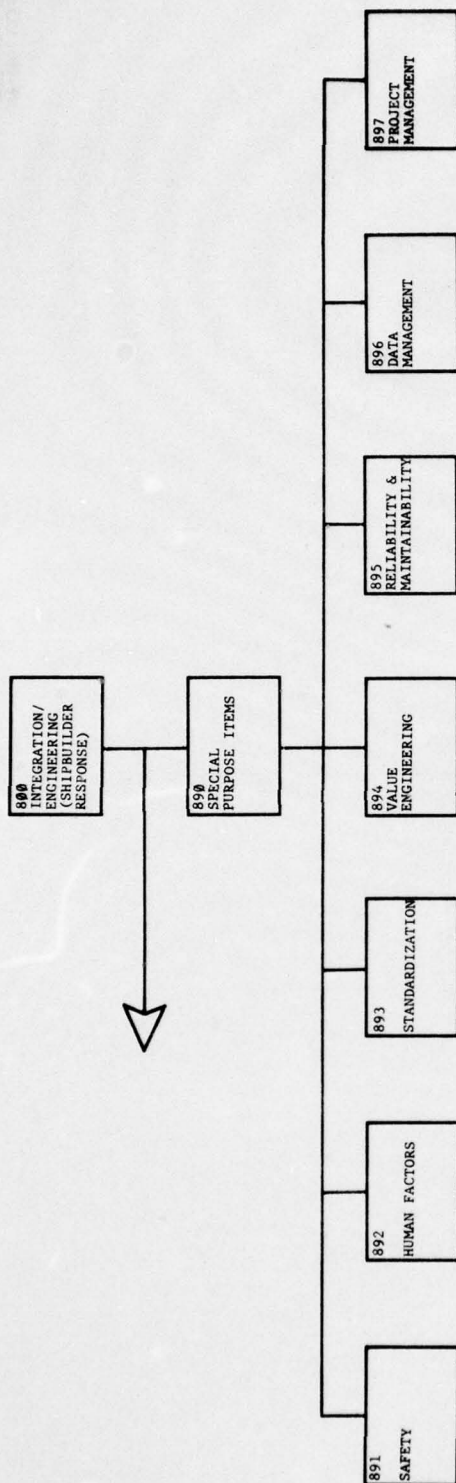




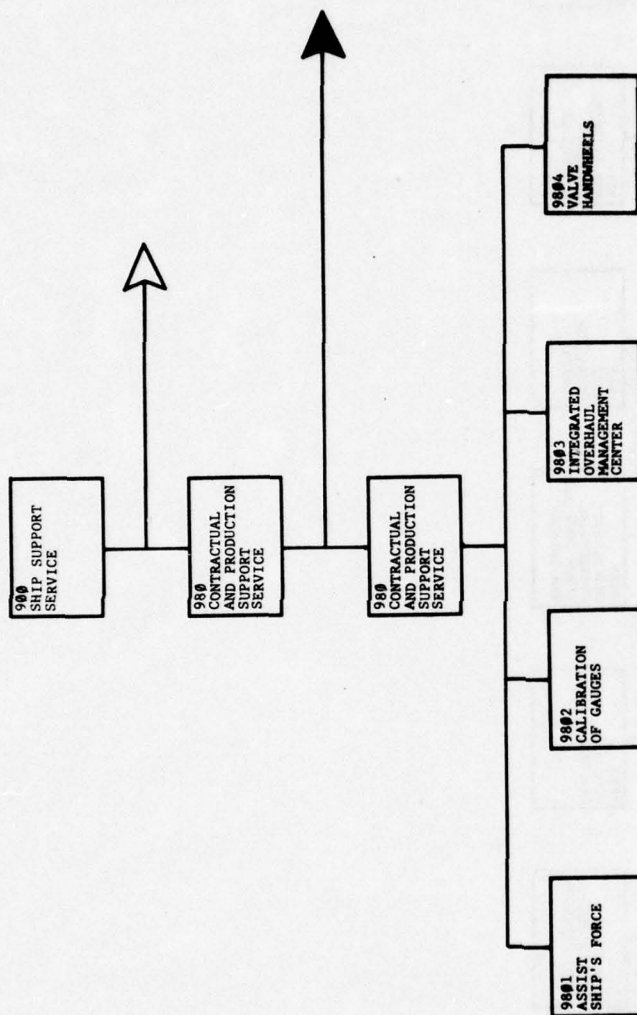


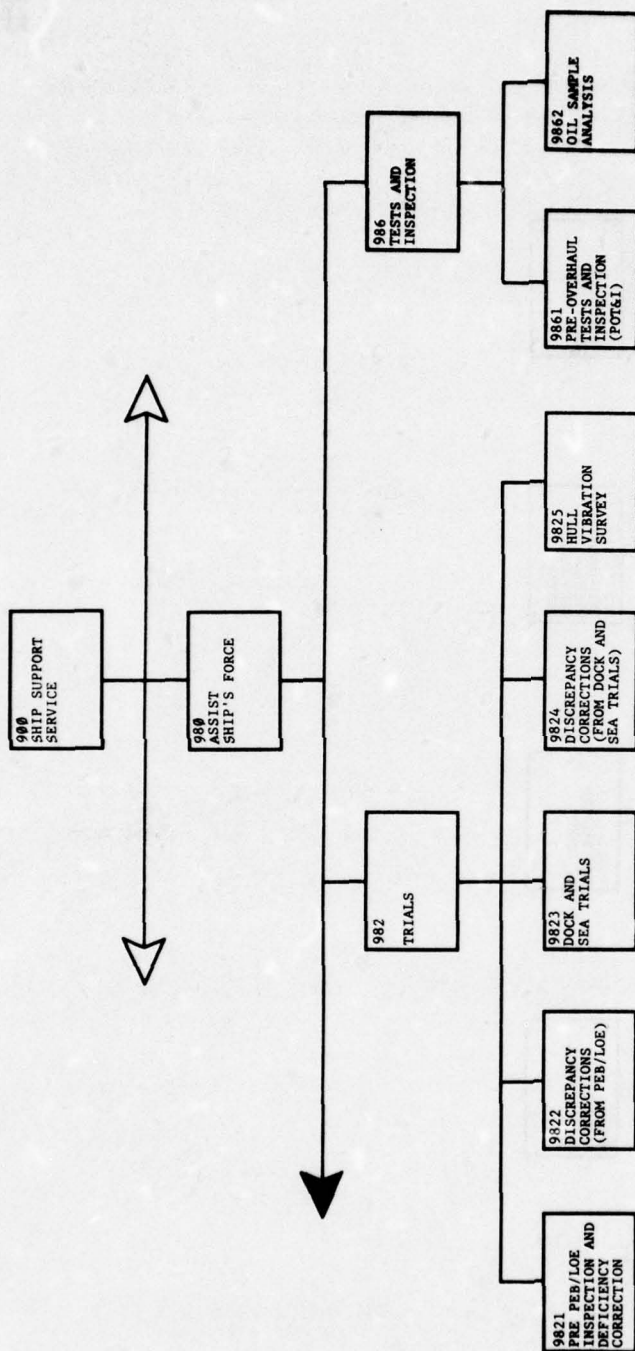


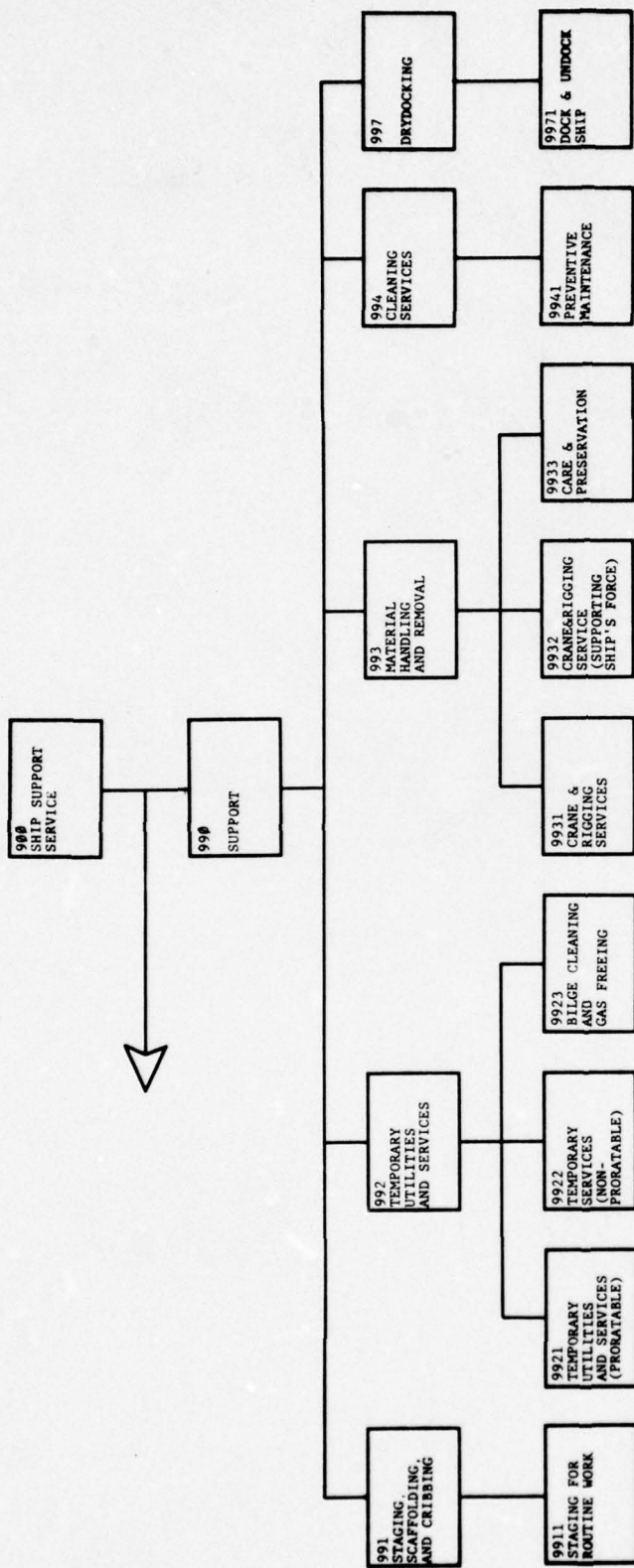
FF-1052 CLASS  
PREPARED 7-22-77













APPENDIX A

COMPONENT DICTIONARY CODE LIST

# APPENDIX A COMPONENT DICTIONARY CODE LIST

## CDC LAPL

AA C82 ABANDON SHIP ACCESSORIES AND LIFE BOATS  
 AB AB- SUPPORTS, ANTENNA (ELEX)  
 AC 94-003 ACOUSTIC DEVICE-SEE ALSO CONTROL ACOUSTIC DEVICE-MINESWEEPING  
 AD 02-006 BOILER-AUXILIARY, STEAM, WASTE HEAT  
 AE 10-006 METER-ELECTRICAL INDICATING, AC AND DC METERS  
 AF 52-013 ACTUATOR-HYDRAULIC SEE ALSO CYL-ACT LINEAR  
 AG 61-265 ACTUATOR-PNEUMATIC & ELECTRO-PNEUMATIC  
 AH 41-040 CUTTING MACHINE-OXYGEN ACETYLENE  
 AI 31-009 CATHODIC PROTECTION EQUIPMENT  
 AJ 61-273 ACTUATOR-ELECTRO MECHANICAL  
 AK 85-008 ADAPTER-MISSILE HANDLING, CARGO HANDLING  
 AL 41-122 AGITATOR-PAINT, SHAKER TYPE  
 AM AM- AMPLIFIERS (ELEX/ORD)  
  
 AN 33-002 AIR CONDITIONER  
 AO NOT ASSIGNED  
 AP 88-011 VALVE-TEMPERATURE REGULATING, STEAM CONTROL  
 AQ 33-012 AIR CONDITIONER-WINDOW UNIT TYPE  
 AR 09-001 CHARGER-BATTERY, AC  
 AS 97-006 ANTENNA ASSEMBLY-BICONICAL OR STUB (HM&E/ELEX)  
 AS AS- ANTENNAE-SIMPLE & COMPLEX (HM&E/ELEX)  
 AT AT- ANTENNAE-SIMPLE (ELEX)  
 AU 36-001 ALARMS & SIGNALING DEVICES-HORNS, SIRENS AND WHISTLES, AIR OR STEAM  
 AV 41-006 CHARGER-MAGNET, PORTABLE  
 AW 36-005 ALARMS & SIGNALING DEVICES-WHISTLE, STEAM OR AIR  
 AX 41-046 CENTERING MACHINE-SINGLE SPINDLE  
 AY 03-007 COOLER-AIR  
 AZ 83-001 SEAL-STERNTUBE, SUBMARINE APPLICATION  
 AO 88-021 VALVE-BOILER BLOW  
 A1 36-003 ALARMS & SIGNALING DEVICES-BELL, BUZZER, SIREN ELECTRICAL  
 A2 23-009 ALARMS & SIGNALING DEVICES-LIGHT, INDICATOR, ELECTRICAL  
 A3 61-079 AMPLIFIER-MAGNETIC  
 A4 88-023 VALVE-SAFETY RELIEF, INCLUDING VACUUM BREAKERS  
 A5 61-082 AMPLIFIER-HYDRAULIC  
 A6 B22 STEERING AND DIVING TOOLS AND REPAIR PARTS  
 A7 B23 TOOLS AND EQUIPMENT O2N2 PLANT  
 A8 23-006 ANNUNCIATOR-MECHANICAL DROP-AC  
 A9 B24 PERISCOPES - HOUSING FITTINGS  
 BA BA- BATTERY-PRIMARY TYPE (ELEX)  
 BB BB- BATTERY-SECONDARY TYPE (ELEX)  
 BC C9-005 BATTERY-STORAGE  
 BD 37-001 BEARING ASSEMBLY-STEM TUBE & STRUT  
 BE 41-001 BALANCING INSTRUMENT-PORTABLE  
 BF 85-037 BALL, NUT, & SCREW ASSEMBLY  
 BG C4-C02 CONDENSER CHILLER-REFRIGERATION  
 BH 37-011 BEARING ASSEMBLY-THRUST, PIVOTED SEGMENTAL, SINGLE OR DOUBLE  
 BI 53-001 CAPSTAN-SEE ALSO MOORING ACCESSORIES  
 BJ C37 MEDICAL EQUIPMENT-PORTABLE  
 BK 83-011 BRAKE-PROPULSION SHAFT (REGARDLESS OF PRIME MOVER)  
 BL 37-013 BEARING ASSEMBLY-THRUST AND JOURNAL WITH RESONANCE CHGR  
 BM C5-C23 COOLING UNIT-AIR TURBINE DRIVEN  
 BN 37-005 BEARING ASSEMBLY-LINE SHAFT  
 BO NOT ASSIGNED

CDC LAPL

BP 25-042 BENCH MARK-OPTICAL  
BQ 41-097 BENDING MACHINE-POWER OPERATED  
BR 93-003 BLFINDER-AVIATION FUEL  
BS 05-030 TURBOSUPERCHARGER-CENTRIFUGAL BOILER  
BT 05-031 TURBINE-GAS  
BU 02-001 BOILER-MAIN PROPELLSION, HP STEAM  
BV 02-005 BOILER-AUXILIARY, HOT WATER  
BW 64-017 FIRE EXTINGUISHER-PORTABLE  
BX 88-027 VALVE-COMPRESSOR SHUT OFF  
BY C92 TOOLS AND ACCESSORIES  
BZ BZ- ALARM UNITS (ELEX)  
BO MINOR LANDING CRAFT AND SMALL BOATS (INCL ALL COMMODITY CLASS 72)  
B1 43-024 BREAD SLICING MACHINE  
B2 99-017 BREATHING APPARATUS  
B3 89-001 BUOY-MESSENGER SEE ALSO UNDERWAY REPLEN ACC  
B4 03-008 COOLER-AIR  
B5 30-001 BURNER-OIL, PRESSURE ATOMIZING, BOILER SERVICE  
B6 30-002 BURNER-OIL, PRESSURE ATOMIZING, GUN TYPE  
B7 30-004 BURNER-OIL, VAPORIZING PCT  
B8 30-005 BURNER-OIL, ROTARY HORIZONTAL  
B9 30-007 BURNER-CATALYTIC  
CA CA- COMMUTATOR ASSEMBLY-SONAR (ELEX)  
CB CB- CAPACITOR BANK (ELEX)  
CC 32-019 CABINET, ICE CREAM SEE ALSO REFRIGERATOR  
CD 28-005 CABINET, RESOLVER CONTROL-AUTOMATIC PLOTTING  
CE 41-005 CABINET, BLAST CLEANING  
CF 85-038 CABLE MACHINERY-DECK  
CG CG- CABLE ASSEMBLY-RF (ELEX)  
CH C15 GASOLINE AND JP - FUEL SYSTEMS TOOLS AND FITTINGS  
CI 43-027 CABINET, DOUGH PROOFING  
CJ 54-006 CAMERA-COPYING, LITHOGRAPHIC  
CK CK- CRYSTAL KITS (ELEX)  
CL 99-002 CARBON DIOXIDE  
CM CM- COMPARATOR (ELEX)  
CN CN- COMPENSATOR (ELEX)  
CO C- CONTROLS (ELEX/ORD)  
  
CP CP- COMPUTER (ELEX/ORD)  
  
CQ 85-042 CARRIAGE/CAR/CART/TRACTOR/TRAILOR  
CR CR- CRYSTALS (ELEX)  
CS 05-032 BASE/ENCLOSURE-GAS TURBINE  
CT 41-147 CARTON MACHINE  
CU CU- COUPLER (ELEX)  
CV CV- CONVERTER (ELEX/ORD)  
CV CONVERTER (ELEX/ORD)  
CW CW- RADOMES (ELEX)  
CX CX- CABLE ASSEMBLIES, NON RF (ELEX)  
CY CY- CASES AND CABINETS (ELEX)  
CZ 32-003 CHILLER-WATER  
C0 88-029 VALVE-REGULATING, WATER FLOW, FOR REFRIGERATION SYSTEMS  
C1 76-004 CHLORINATOR  
C2 31-032 CHOCK-ROLLER, DECK AND STERN  
C3 14-001 CIRCUIT BREAKER-NAVY TYPE AOB AND AOBLE  
C4 14-002 CIRCUIT BREAKER-NAVY TYPE NOB AND NLE  
C5 14-003 CIRCUIT BREAKER-NAVY TYPE ACB



# CDC LAPL

CL 14-004 CIRCUIT BREAKER-NAVY TYPE ALB  
CJ 14-006 CIRCUIT BREAKER-CTHER THAN AQB, NOB, ACB,ALB TYPES  
C8 41-148 CLEANING MACHINE-ALL TYPES EXCEPT BLAST CLNG CAB  
C9 99-006 CLOSER-DOOR HYDRAULIC  
DA DA- DUMMY LOAD (ELEX)  
DB 33-007 DAMPER-ACTUATOR AND POSITIONER  
DC 40-006 DAMPER-VENT, COMBUSTION CONTROL  
DD 56-001 DAVITS, ALL TYPES  
DE 28-003 DEAD RECKONING EQUIPMENT  
DF 85-024 DEFLECTOR, JFT PLAST  
DG 46-012 DEGAUSSING MAGNETIC MEASUREMENT SYSTEM  
DH 41-011 DEGREASER  
DI D- DISPENSER-CHAFF (ELEX)  
DJ 44-002 DEHUMIDIFIER-DESICCANT ELECTRIC  
DK 44-009 DEHUMIDIFIER-SPACE, MECH REFRIG SELF CONTAINED  
DL 32-005 DEHYDRATOR-REFRIGERATION  
DM 44-001 DEHYDRATOR-FILTER, DESICCANT, HGH PRES AIR, SELF REAC  
DN 44-004 DEHYDRATOR-NON REACTIVATING  
DO NOT ASSIGNED  
DP C8-007 DEMINERALIZER-WATER, ION EXCHANGE  
DQ 99-027 DESUPERHEATERS-ALL TYPES  
DR C6-2C5 COMPRESSOR UNIT-AIR  
DS 33-005 CAMPER-MECHANICAL EXHAUST VENTILATION SYS  
DT DT- DETECTING HEADS (ELEX)  
DU 54-021 DEVELOPING MACHINE-BLACK AND WHITE PRCESS  
DV 43-001 DISH WASHING MACHINE  
DW 41-049 DISINTEGRATING MACH-METAL, ELEC ARC  
DX 32-014 DISPENSER-DRINKING WTR SEE ALSO DRNG FTN(67-006)  
DY DY- DYNAMOTORS (ELEX)  
DZ 32-032 DISPENSER-MECHANICALLY REFRIGERATED, MILK  
DO C9-002 CHARGER-BATTERY, D.C.  
DI 41-146 DISPENSER-TAPE, ELECTRIC  
D2 32-031 DISPLAY CASE-MECH REF,SELF CONTND/NON-REFR  
D3 C6-002 COMPRESSOR-RECIPROCATING  
D4 08-001 DISTILLATION UNIT  
D5 52-015 DESURGER-HYDRAULIC  
D6 32-027 DISPENSER-MECH REF,OTHR THN MLK SEE CAB,ICE CR/FREEZR  
D7 08-005 DISTILLATION UNIT-VAPOR COMPRESSION  
D8 85-011 DOLLY-BOAT STORAGE SEE ALSO TRK/DOLLY/CRAOLE ASS  
D9 31-034 DOOR-ROLLER CURTAIN, SHIPBRD, HAND CR PWR CPER  
EA 74-001 EDUCTOR-LIQUID  
EB 49-001 CARBURETOR  
EC 73-010 EJECTOR-GARBAGE AND TRASH DISPOSAL  
ED C7-011 HEATER-FLUID  
EF 88-031 VALVE-BURBLER  
EF 73-012 EJECTOR-SIGNAL  
EG 73-001 EJECTOR ASSEMBLY-AIR  
EH E- HOISTS (ELEX)  
EI NOT ASSIGNED  
EJ 11-003 CONVERTER  
EK 849 NITROGEN CHARGING ASSEMBLY  
EL 59-001 ELEVATOR-ELECTRO MECHANICAL  
EM 15-013 CONTROLLER-AC  
EN 16-010 GENERATOR-GAS  
EO NOT ASSIGNED  
EP 59-002 ELEVATOR-AIRCRAFT LIFTING

CDC LAPL

EQ 41-050 EMBOSsing MACHINE-METAL & CRDBRD ALSO OFF MACH ACC  
ER 16-012 BENCH-LIQUID OXYGEN CONVERTER FILL  
ES 66-001 ENGINE-DIESEL, SHIP PROPULSION AND SHIP'S SERVICE, 2 & 4 CYCLE  
ET 22-022 SWITCHBOARD-MINESWEEPING  
EU 88-037 VALVE-REFRIGERATION SHUT OFF, SMALLER THAN 3/4 IN  
EV 66-005 ENGINE-DIESEL, 2 & 4 CYC, TYPE B  
EW 16-014 BOOSTER-GAS  
EX 66-006 ENGINE-DIESEL, NON-MAGNETIC MINESWP PROP & AUX 4 CYC  
EY 66-017 ENGINE-GASOLINE AIR OR FLUID COOLED  
EZ 18-007 MOTOR GENERATOR  
EO 88-042 VALVE-FLCAT, LIQUID LEVEL CONTROL, REFRIGERATION SYSTEMS  
E1 66-019 ENGINE-GASOLINE, BOAT PROP, OUTBOARD MOTOR  
E2 66-020 ENGINE-STEAM, RECIPROCATING, MN PROP & AUX SERVICE  
E3 88-044 VALVE-STEAM SEAL MANIFOLD  
E4 88-045 VALVE-GUARDING  
E5 41-051 ENGRAVING MACHINE PANTOGRAPH  
E6 59-005 ESCALATOR  
E7 09-011 EXCHANGER, ION  
E8 93-001 EXPANSION JOINTS-PIPE, PACKLESS  
E9 88-046 VALVE-TRIP THROTTLE  
FA 40-001 FAN-VANEAXIAL AND/OR TUBEAXIAL  
FB 18-009 MOTOR GENERATOR  
FC 40-002 FAN-CENTRIFUGAL  
FD 20-002 RHEOSTAT  
FE 40-003 FAN-CIRCULATING  
FF 40-009 FAN-CENTRIFUGAL, CARBON DIOXIDE REMOVAL SYS  
FG 99-020 FREERAIL-BRIDGE CRANE  
FH 41-076 FILING MACHINE-SAW, BLADE  
FI C56 BOILER FEEDWATER TEST AND TREATMENT  
FJ 09-010 FILLER-PORTABLE BATTERY WATER  
FK 48-002 FILTER-FLUID, PRESSURE  
FL F- FILTER UNITS (ELEX)  
FM 20-006 RHEOSTAT  
FN FN- FURNITURE (ELEX)  
FO NOT ASSIGNED  
FP 88-048 VALVE-CROSSOVER AND MANIFOLD  
FQ 43-034 FILTER-COOKING GREASE  
FR FR- FREQUENCY MEASURING DEVICES (ELEX)  
FS C55 FUEL OIL STOWAGE AND EQUIPMENT  
FT 31-023 FITTINGS-HULL SEE ALSO TOWING-ACC, MOORING ACC  
FU 24-002 FIXTURE-LIGHTING  
FV 48-006 FILTER-AIR, WET OR DRY ELEMENTS  
FW 76-003 FILTER-WATER PURIFICATION  
FX 31-012 FLAME ARRESTER-VENTILATION  
FY 54-015 FOLDING MACHINE-PAPER  
FZ 43-012 GRINDERS AND CUTTERS-FOOD ELECTRICAL  
FO 16-011 FURNACE ASS OXY CANDLE ROUND AND SQUARE  
F1 43-059 FOOD WARMER-RADIANT, OVERHEAD, ELECTRIC  
F2 41-016 FORGE-OIL BURNING ELEC OR OTHER ALSO FURNACE  
F3 41-053 FORGING MACHINE-HAMMER VERTICAL  
F4 41-017 FORMING MACHINE-SHEET METAL  
F5 54-004 FRAME PRINTING  
F6 43-006 FRYERS-DEEP FAT, ELECTRIC  
F7 85-046 FUEL DISPERSING SYS  
F8 41-019 FURNACE- ELECTRIC  
F9 41-020 FURNACE-OIL BURNING

# CDC LAPL

GA 45-003 GAGE-LIQUID QUANTITY MECHANICAL SEE ALSO INDICATOR AND METER  
GB 45-004 GAGE-LIQUID QUANTITY HYDRAULIC/PNEUMATIC  
GC 45-007 GAGE-PRESSURE  
GD 45-009 GAGE-DEPTH SURMARINE  
GE 43-002 GALLEY EQUIPMENT-ELECTRICAL  
GF 43-009 GARBAGE DISPOSAL MACHINE  
GG 31-005 GATE-STERN SEE ALSO DOOR OR HATCH  
GH G- GENERATOR-POWER (ELEX)  
GI 867 OPERATING GEAR MISCELLANEOUS REPAIR PARTS  
GJ 43-047 DOUGHNUT MACHINE-CUTTING AND FRYING  
GK 69-028 GEAR-TURNING/JACK DEVICE  
GL 69-029 GEAR-TILTING  
GM 69-006 GEAR ASSEMBLY-SPEED DECREASER, MAIN PRCP SERVICE  
GN 69-016 GEAR ASSEMBLY-SPEED DECREASER, AUX SERVICE  
GO GO- GONICMETERS (ELEX)  
GP GP- GROUND RODS (ELEX)  
GQ B51 BOILER FEEDWATER SYSTEM CONTROL FITTINGS  
GR 23-008 SEMAPHORE-MECHANICAL SIGNAL  
GS 43-044 GALLEY UNITS-COMPACT  
GT 16-006 GENERATOR-DC OR AC  
GU 24-004 FIXTURE-LIGHTING FLUORESCENT  
GV 24-006 FIXTURE-LIGHTING MERCURY VAPOR  
GW 16-008 GENERATOR-SMOKE, MECHANICAL  
GX 16-009 GENERATOR-OXYGEN/NITROGEN  
GY 16-001 GENERATOR-BATTERY CHARGING  
GZ 70-001 GOVERNOR-MECHANICAL  
GO FUEL GELLING UNIT MIG - 10  
G1 70-005 GOVERNOR-HYDRAULIC  
G2 88-072 GOVERNOR-PUMP  
G3 70-013 GOVERNOR-ELECTRO HYDRAULIC  
G4 70-014 GOVERNOR-ELECTRIC  
G5 23-004 SEARCHLIGHT-SIGNAL  
G6 41-057 GRINDING MACHINE-CYCLINDRICAL  
G7 41-060 GRINDING MACHINE-GLASS  
G8 41-063 GRINDING MACHINE-VALVE  
G9 41-065 GRINDING MACHINE-SURFACE, RECIPROCATING  
HA 85-031 HANDLING GEAR-GUIDANCE CAPSULE  
HB 85-045 HANGAR-AIRCRAFT  
HC HC- HOLDER, CRYSTAL (ELEX)  
HD HD- ENVIRONMENTAL APPARATUS (ELEX)  
HE 07-002 HEATER-FLUID, FUEL OIL AND LUBE OIL, STEAM HEATED  
HF 07-003 HEATER-WATER AND AIR  
HG 26-015 PROJECTOR-MOTION PICTURE, SOUND, SUPER 8MM  
HH 07-004 HEATER-WATER, STM/HT WTR HTD, INST, STM WTR CVTR  
HI 07-001 HEATER-FLUID, SEA WATER, STEAM HEATED  
HJ 07-005 HEATER-FLD, DEAERATING, BOILER FDWTR, TYPES I & II  
HK 07-006 HEATER-IMMERSION, ELECTRIC  
HL 07-007 HEATER-SPACE ELEC, TYP D RADIANT, TYPE T TUR, RAD PANL  
HM 26-016 PROJECTOR-MOTION PICTURE, SOUND, SUPER 16MM  
HN 07-013 HEATER-WTR, ELECTRIC STORAGE TYPE  
HO NOT ASSIGNED  
HP 07-016 HEATER-COOLANT ENGINE, OIL FIRED OR ELECTRIC  
HQ 07-022 HEATER-VENTILATION, VENT DUCT, ELEC, TYP 51-61  
HR 07-023 HEATER-SPACE ELECTRIC, BLOWER, TYPE B  
HS H- HEAD, HAND, AND CHEST SETS (ELEX)  
HT 07-017 HEATER-AIR CIRCULATING UNIT, STEAM OR HT WTR HTD



# CDC LAPL

HU 07-045 HEATING ELEMENTS-ELEMENTS-ELECTRICAL  
HV 07-036 HEATING UNIT-ELEC. CONTRLD TEMP FOR STRSS RELF PRHTG  
HW 58-001 HOIST-WIREROPE ELECTRIC  
HX 58-002 HOIST-MANUAL  
HY 58-003 HOIST-ELECTRO HYDRAULIC & ELECTRO-MECHANICAL  
HZ 58-004 HOIST-CHAIN ELECTRIC  
HO 61-116 HYDROSTAT. CONTRCL  
H1 58-005 HOIST-PNEUMATIC  
H2 58-006 HOIST-HYDRAULIC  
H3 85-025 HOIST-WINDSCREEN  
H4 87-009 HOIST-RODMETER. U/W LOG  
H5 52-033 HOIST ASSEMBLY-CYL & RAM TYP FOR COMMUN MAST  
H6 41-069 HONING MACHINE-HORIZONTAL OR VERTICAL  
H7 33-010 HUMIDIFIER  
H8 52-016 HYDRAULIC MECHANISM SEE ALSO MISSLE FNDG SYS-HYD  
H9 31-033 HYDROFOIL ASSEMBLY  
IA 64-018 FIRE EXTINGUISHING SYSTEM  
IB 66-002 ENGINE-DIESEL. TWO CYCLE  
IC 865 IC COMMUNICATION EQUIPMENT  
ID ID- INDICATOR-NON CATHODE RAY TUBE (ELEX/CRD)  
  
IE 66-018 ENGINE-GASOLINE  
IF 66-021 ENGINE-DIESEL. NONMAGNETIC  
IG 66-022 ENGINE-DIESEL. MODEL 645  
IH 69-026 GEAR ASSEMBLY-SPEED INCREASER  
II 71-001 DISTRIBUTOR-IGNITION SYSTEM  
IJ 73-011 EJECTOR-SEWAGE  
IK 78-018 COUPLING ASSEMBLY  
IL IL- INSULATORS (ELEX)  
IM IM- INTENSITY MEASURING DEVICES (ELEX)  
IN 79-003 MUFFLER-DRY  
IO NOT ASSIGNED  
IP IP- INDICATORS-CATHODE RAY TUBE (ELEX)  
IO 83-015 CONTROL BOARD-CONTROLLABLE PITCH PROPELLER. EMER. PITCH CONTROL  
IR 91-004 LAUNDRY PRESS-COMMERCIAL  
IS 859 AIR CONDITIONING REFRIGERATION TOOLS AND ACCESSORIES  
IT 92-020 TANK-LUBE OIL STORAGE AND CONDITICNING ASSEMBLY  
IU 94-004 ACOUSTIC DEVICE  
IV 94-005 ACOUSTIC DEVICE  
IW NOT ASSIGNED  
IX 97-012 SUB ASSEMBLIES-PERISCOPE  
IY 97-018 CAMERA ACCESSORIES-PERISCOPE  
IZ 99-029 RECEIVER-FUELING PROBE  
IO NOT ASSIGNED  
II NOT ASSIGNED  
IZ 864 NAVIGATIONAL SIGNAL LIGHTS  
I3 NOT ASSIGNED  
I4 NOT ASSIGNED  
I5 NOT ASSIGNED  
I6 NOT ASSIGNED  
I7 NOT ASSIGNED  
I8 NOT ASSIGNED  
I9 NOT ASSIGNED  
JA 43-028 ICE CREAM CUP FILLING MACHINE- HAND OPERATED  
JB 32-017 ICE CREAM FREEZER-PWR OPER WITH INTGRL MCH REF EO  
JC 32-022 ICE MAKING MACHINE-MECH REFRIG SELF CONTAINED

## CDC LAPL

JD J- INTERFACE UNITS (ELEX)  
JE 32-004 ICE MAKING PLANT  
JF 41-032 IMPREGNATING EQUIPMENT  
JG 30-006 INCINERATOR SEE ALSO BURNER  
JH 27-008 SALINITY INDICATING EQUIPMENT  
JI NOT ASSIGNED  
JJ 38-002 INDICATOR-TEMPERATURE, ELECTRICAL  
JK 28-028 NAVIGATION EQUIPMENT  
JL 38-007 INDICATOR-BOILER SMOKE  
JM 38-014 INDICATOR-SALINITY & SALINITY CELL  
JN 38-015 INDICATOR-PRES DIFFERTL, LIQ/STM LVL, DIR OR REM  
JO NOT ASSIGNED  
JP 38-016 INDICATOR-MECHANICAL TACHOMETER  
JQ 38-020 INDICATOR-LIQ LVL, FLOW, WATER AND FUEL  
JR 45-001 INDICATOR-SIGHT LIQUID, FLAT  
JS 45-002 INDICATOR-SIGHT LIQUID, TUBULAR  
JT 45-005 INDICATOR-METER, DIFFERENTIAL PRESSURE  
JU 61-025 INDICATOR-PORTABLE SHIP CONTROL  
JV 41-111 VULCANIZER - RUBBER COVERED CABLE  
JW 29-001 INJECTOR- FUEL DIESEL ENGINE NOZZLE NON-MET TYP  
JX 29-002 INJECTOR-FUEL, DIESEL ENGINE, UNIT METERING AND PRES  
JY 43-060 INJECTOR-RINSE AGENT FOR DISHWASHING MACHINE  
JZ B87 MEASURING AND INDICATING INSTRUMENTS  
JO 31-011 TENSION UNIT-HYDRAULIC RAM  
J1 27-009 INTERCOMMUNICATION STATION  
J2 97-002 MAST-ANTENNA  
J3 97-013 MAST-SNORKEL  
J4 689 NUCLEAR POWER PLANT - COOLANT DISCHARGE SYSTEM VALVE  
J5 85-035 JACK ASSEMBLY-HAND, SCREW, HYDRAULIC/PNEUMATIC OPR  
J6 41-034 JOINTER-WOODWORKING  
J7 27-010 TELEPHONE EQUIPMENT-DIAL  
J8 43-008 KETTLE-STEAM JACKETED  
J9 41-070 KEY DUPLICATING MACHINE  
KA 40-004 DRIER-HAND, ELECTRIC  
KB 86-003 DRIER-PHOTOGRAPHIC  
KC 41-014 DRILLING MACHINE-FLOOR OR BENCH  
KD 43-050 TABLE-FOOD WARMER, ELECTRIC/STEAM HEATED  
KE 54-014 DRILLING MACHINE-PAPER  
KF 67-006 DRINKING FOUNTAIN  
KG 52-001 DRIVE ASSEMBLY-ELECTRO HYDRAULIC AMMUN HOIST  
KH 52-004 DRIVE ASSEMBLY-ELECTRO HYD HST, VERT TUB., 12.75RKT  
KI 16-005 TACHOMETER SEE ALSO INDICATOR-MECHANIC TACHMETER  
KJ 52-007 DRIVE ASSEMBLY-ELECTROHYDRAULIC HOIST, 3000# MIS TRAV  
KK 88-063 VALVE-PRESSURE REGULATING  
KL 85-004 DRIVE ASSEMBLY-SLIDING BLOCK  
KM 91-008 DRY CLEANING PRESS  
KN 91-007 DRY CLEANING UNIT ASS-AUTO, SYNTHET SOLVENT TYPE  
KO NOT ASSIGNED  
KP 54-018 DRYING MACHINE BLUEPRINT  
KO 91-002 DRYING TUMBLER-LAUNDRY  
KR 59-003 DUMBWAITER  
KS 54-002 DUPLICATING MACHINE-OFFSET SEE ALSO CFF MACH ACC  
KT 41-015 DYNAMOMETER  
KU 41-131 TANK-HOT DIP  
KV 92-005 TANK-DIESEL ENGINE, AIR STARTING  
KW 92-001 TANK-STORAGE

CDC LAPL

KX 88-104 VALVE-STOP CHECK  
KY KY- KEYING DEVICES (ELEX)  
KZ 88-117 VALVE SURPLATE  
KO 88-125 VALVE-PRESSURE CONTROL  
K1 88-129 VALVE-PRESSURE REGULATING  
K2 88-130 VALVE-HYDRAULIC CONTROL  
K3 01-010 PUMP, ROTARY PISTON, FIXED OR VARIABLE DELIVERY  
K4 88-134 VALVE-SHUTTLE  
K5 88-135 VALVE-HYDRAULIC  
K6 88-138 VALVE-CHECK, INLINE, UNDER \$25.00  
K7 01-025 PUMP, PORTABLE SUBMERSIBLE  
K8 88-142 VALVE-CHECK, INLINE, \$25.00 AND ABOVE  
K9 88-158 VALVE-TEST CASTING  
LA 24-009 LANTERN-ELECTRIC, BATTERY TYPE  
LB 41-036 LATHE-METAL WORKING  
LC LC- TOOLS-LINE CONSTRUCTION (ELEX)  
LD 91-012 LAUNDRY EQUIPMENT  
LE 23-002 LIGHT-INDICATOR  
LF 24-008 LIGHT-NAVIGATIONAL MARINE  
LG 54-024 LIGHT-ARC PHOTO LITHOGRAPHIC  
LH 16-015 LIQUIDIFIED GAS STORAGE AND CHARGING SYS  
LI NOT ASSIGNED  
LJ 54-007 LITHOGRAPHIC, NEGATIVE AND PLATE MAKING  
LK 99-020 LOCK-ELECTROMECHANICAL  
LL 28-018 LOCKER-BINOCULAR DRYING  
LM 26-013 LOUDSPEAKER-MOTION PICTURE PROJECTOR  
LN 65-001 LUBRICATOR-MECHANICALLY OR HAND OPERATED  
LO NOT ASSIGNED  
LP 65-002 LUBRICATOR-AIR OPERATED  
LO C16 LADDERS AND ACCESS CLOSURE EQUIPMENT  
LR 845 LUBE OIL PIPING SYSTEM REPAIR PARTS  
LS LS- LOUDSPEAKERS (ELEX)  
LT 41-037 LATHE-WOODWORKING  
LU 88-159 VALVE-DISTRIBUTOR LUBRICATION  
LV 41-141 UNDERCUTTER - ARMATURE, MICA, ELECTRICAL OPERATED  
LW C20 UNDERWAY REPLENISHMENT TOOLS AND ACCESSORIES  
LX 22-008 UNION TUBE - REFRIGERATION  
LY 43-005 URNS -COFFEE  
LZ 88-162 VALVE-SHEARING  
LO 88-169 VALVE-LINE BLIND  
L1 LAUNCHER STAND-WEAPON SYSTEM  
L2 LAUNCHER GUIDES-WEAPON SYSTEM  
L3 TRAIN ASSEMBLY-WEAPON SYSTEM  
L4 ELEVATION ASSEMBLY-WEAPON SYSTEM  
L5 AMPLIFIER, POWER DRIVE-WEAPON SYSTEM  
L6 RAMMER-LOADER ASSEMBLY-WEAPON SYSTEM  
L7 88-170 VALVE AND TRAP MANIFOLD  
L8 88-177 VALVE-SPECIAL STOP CHECK  
L9 88-186 VALVE-FLOW FUSE  
MA MA- MAGAZINE-MAGNETIC TAPE OR WIRE (ELEX)  
MB 68-001 MAGNETO-IGNITION  
MC 32-006 MANIFOLD-REFRIGERATION  
MD MD- MODULATORS, DEMODULATORS, AND DISCRIMINATORS (ELEX)  
ME ME- METERS (ELEX)  
MF MF- MAGNETS OR MAGNETIC FIELD GENERATORS (ELEX)  
MG 45-008 MANOMETER-U TUBE AND OTHER TYPES



# CDC LAPL

MH 91-006 MARKING MACHINE-LAUNDRY  
MI \*- MICROPHONES (ELEX)  
MJ 85-030 MAST-HINGED  
MK MK- MISCELLANEOUS KITS (ELEX)  
ML ML- METEOROLOGICAL DEVICES (ELEX)  
MM 43-016 MEAT SLICING MACH-ELEC & MANUAL SEE ALSO FOOD CUTTER  
MN 43-021 MEAT TENDERIZER-ELECTRIC  
MO NOT ASSIGNED  
MP 10-001 METER-VOLUMETRIC, POS DISPL,FUEL OIL,WTR,GAS,JP-5,AL T  
MQ 10-002 METER-FLOWRATE INDICATING, FLOAT TYPE ROTAMETER  
MR 10-003 METER-IMPELLER TYPE LIQUID VELOCITY  
MS 10-004 METER-VENTURI TYPE  
MT MT- MOUNTINGS (ELEX)  
MU MU- MEMORY UNITS (ELEX)  
MV 41-042 MILLING MACHINE-HORIZONTAL  
MW 41-043 MILLING MACHINE-WOODWORKING, VERTICAL, BORING  
MX MX- MISCELLANEOUS EQUIPMENT (ELEX)  
MY 41-038 MIXER-LIQUID, PORTABLE  
MZ 43-004 MIXING MACHINE-ELECTRIC, FOOD AND FLUID  
MO 29-031 SEXTANT, MARINE  
M1 43-035 MOLDING MACHINES-MEAT, FISH  
M2 C26 ANCHORING AND MOORING APPLIANCES  
M3 41-088 MORTISER-HOLLOW CHISEL  
M4 17-023 MOTOR-AC/DC 0.25 HORSEPOWER AND SMALLER  
M5 31-039 SONAR DOME WINDOW SYSTEM  
M6 10-005 METER-FLOWRATE INDICATING, VANE TYPE  
M7 17-001 MOTOR-AC OR DC  
M8 31-040 TENSIONING DEVICE-TORSION BAR  
M9 E32 MISCELLANEOUS FLAG ALLOWANCES, OFFICE MACHINES  
NA 32-021 CARBONATOR-SCOA FOUNTAIN  
NB 13-013 TRANSFORMERS-REPAIRABLE AND NON-REPAIRABLE  
NC 32-025 ICE CREAM FREEZER  
ND 33-004 CHILLER-WATER, AIR CONDITIONING  
NE 61-080 AMPLIFIER-ELECTRONIC  
NF 52-005 TRANSMISSION-HYDRAULIC, FIXED OR VARIABLE DELIVERY SEE ALSO POWER UNIT  
NG 69-011 TRANSMISSION-MECHANICAL  
NH 27-005 TRANSMITTER-MECHANICAL  
NI NOT ASSIGNED  
NJ 27-006 TXMTR-LIQ LVL AND/OR FLOW,CAP,FLOAT,IND,RADIOACT,RES AND SONIC TYPE  
NK 27-021 TRANSMITTER-LIQUID LEVEL, ELECTRICAL  
NL 28-024 TRANSMITTER-NAVIGATIONAL  
NM 61-055 TRANSMITTER-TEMPERATURE SEE ALSO INDICATOR - TEMPERATURE,ELEC RESIST  
NN 27-001 TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES  
NO NOT ASSIGNED  
NP 54-022 PRINTING MACHINE-BLUEPRINT  
NQ 85-043 STAND-MISSILE  
NR 88-192 VALVE-PRESSURE REGULATING, HIGH PRESSURE AIR  
NS STEEL PLATE  
NT 88-193 VALVE-FLOW CONTROL  
NU 88-201 VALVE-OFFICE  
NV 77-001 TRAP-STEAM AND/OR AIR  
NW 37-016 BEARING-JOURNAL, PIVOTED PAD/SHOE  
NX 38-021 INDICATING SYSTEM-LIQUID LEVEL, PNEUMATIC  
NY 41-002 BALANCING MACHINE-DYNAMIC, STATIC, HORIZONTAL  
NZ 41-031 MACHINE-HOSE ASSEMBLY, REPAIR AND CUTOFF  
NO 93-004 NOZZLE-PRESSURE FUEL SERVICING

## CDC LAPL

N1 C24 NAVIGATION EQUIPMENT AND ACCESSORIES  
N2 28-027 NAVIGATION EQUIPMENT-PLOTTING SYS SEE ALSO PLTG TABLE  
N3 28-026 NAVIGATION EQUIPMENT-DEAD RECKONING EQUIPMENT  
N4 28-001 NAVIGATION PLOTTING BOARDS  
N5 28-011 NAVIGATIONAL CLOCKS  
N6 31-041 DOOR-HINGED-HAND OPERATED  
N7 64-001 NOZZLE-FIRE HOSE SEE ALSO DAMAGE CONTROL ACC  
N8 64-003 NOZZLE-MONITOR TYPE  
N9 64-004 NOZZLE-WATER QUENCH  
CA 0A- MISCELLANEOUS GROUPS (ELEX)  
OB 0B- MULTIPLEXER AND/OR DEMULTIPLEXER GROUPS (ELEX)  
OC 0C- OCEANOGRAPHIC DEVICES (ELEX)  
OD 0D- INDICATOR GROUPS (ELEX/ORD)  
  
OE 0E- ANTENNA GROUPS (ELEX)  
OF 0F- ADAPTER GROUPS (ELEX)  
OG 0G- AMPLIFIER GROUPS (ELEX)  
OH 0H- SIMULATOR GROUPS (ELEX)  
OI 0I- OSCILLATORS (ELEX)  
OJ 0J- CONSOLES AND CONSOLE GROUPS (ELEX/CRC)  
  
OK 0K- CONTROL GROUPS (ELEX/ORD)  
OL 0L- DATA ANALYSIS AND DATA PROCESSING (ELEX)  
OM 0M- MODULATOR AND/OR DEMODULATOR GROUPS (ELEX)  
ON 0N- INTERCONNECTING GROUPS (ELEX)  
OO NOT ASSIGNED  
  
OP 0P- POWER SUPPLY GROUPS (ELEX/ORD)  
OQ 0Q- TEST SET GROUPS (ELEX)  
OR 0R- RECEIVER GROUPS (ELEX)  
OS 0S- OSCILLOSCOPE-TEST (ELEX)  
OT 0T- TRANSMITTER GROUPS (ELEX)  
OU 0U- CONVERTER GROUPS (ELEX)  
OV 0V- GENERATOR GROUPS (ELEX)  
OW 0W- TERMINAL GROUPS (ELEX)  
OX 0X- CODER, DECODER, INTERROGATOR, TRANSPONDER GROUPS (ELEX)  
OY 0Y- RADAR SET GROUPS (ELEX/ORD)  
  
OZ 0Z- RADIO SET GROUPS (ELEX)  
CO NOT ASSIGNED  
O1 99-A01 NR-1 SUBMERSIBLE RESEARCH SHIP  
O2 99-A02 ATS-1, 2, 3 (UNITED KINGDOM)  
O3 99-A03 ORDNANCE FIRE CONTROL SWITCHING EQUIPMENT (HM&E/ORD)  
  
O4 99-A04 DEEP DIVING SUBMERGENCE SYSTEM  
O5 99-A05 OCEANOGRAPHIC COMPONENTS  
O6 TRANSCEIVER GROUPS  
O7 SONAR SET GROUPS  
O8 97-003 ANTENNA SYSTEM-FLOATING WIRE  
O9 97-004 ANTENNA SYSTEM-HELICAL, LOOP OR WHIP  
PA 50-033 PANEL-REMOTE VALVE OPERATING  
PB 88-203 VALVE-MIXING, REFRIGERATION, AIR CONDITIONING AND COOLING  
PC 50-001 PANEL-FUSE  
PD 0D- PRIME DRIVERS (ELEX)  
PE 50-005 PANEL-COMMUNICATION

## CDC LAPL

PF PF- FITTINGS-POLE (ELEX)  
PG PG- PIGEON ARTICLES (ELEX)  
PH PH- PHOTOGRAPHIC ARTICLES (ELEX)  
PI 97-011 PERISCOPE-STADIMETER  
PJ 50-010 PANEL-POWER DISTRIBUTION AND/OR CONTROL (HM&E/ORD)

PK PANEL-INDICATING (HM&E/ORD)  
PK 50-025 PANEL-INDICATING (HM&E/ORD)  
PL PL- PLUG-IN UNITS (ELEX)  
PM 41-072 PAPER SHREDDING MACHINE SEE ALSO OFF MACH ACC  
PN 25-004 PELORUS STAND SEE ALSO NAVIGATION EQUIPMENT ACC  
PO NOT ASSIGNED  
PP PP- POWER SUPPLY-NONROTATING MACHINE TYPE (ELEX)  
PQ 97-008 PERISCOPE-COLLIMATOR  
PR 97-009 DEPLUMERS, FAIRINGS AND SUPPORTS FOR SUBMARINE PERISCOPES AND MASTS  
PS 50-009 PANEL-ALARM  
PT PT- MAPPING AND PLOTTING UNITS (ELEX)  
PU PU- POWER SUPPLY-ROTATING (ELEX)  
PV 41-047 CLEANING MACHINE-CLOCK AND WATCH  
PW 41-073 PINKING MACHINE  
PX 848 PIPING SYSTEM HARDWARE  
PY 41-091 PLANER-METAL CUTTING  
PZ 97-010 PERISCOPE-SEXTANT  
PO 11-009 POWER SUPPLY-AN/SQS-26 SONAR  
P1 28-029 PLOTTING TABLE, MK NC2 MOD0.2 & 3 SEE ALSO NAVIG EQ (HM&E/ORD)

P2 836 SANITATION EQUIPMENT AND REPAIR PARTS  
P3 27-011 PNEUMATIC TUBE SYSTEMS-COMMUNICATION  
P4 41-093 POLISHER-METALLURGICAL  
P5 41-095 POSITIONER-WELDING  
P6 41-094 POT-MELTING, ELEC  
P7 97-001 PERISCOPE-SUBMARINE  
P8 11-001 POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE  
P9 41-008 CLEANER-STEAM PRESSURE JET  
QA 54-010 PRINTING MACHINE-HEAT DEVELOPING  
QB 54-005 PRINTING PRESS-OFFSET  
QC 54-008 PRINTING PRESS-LETTER PRESS  
QD 54-019 PRINTING PRESS-LETTER  
QE 54-025 PRINTING PRESS-PROOF  
QF 99-028 PROBE AND CARRIER-FUELING SEE ALSO FUEL CIL SYS ACC  
QG 54-017 PROCESSING MACHINE-BLUE PRINT  
QH 86-013 PROCESSING MACHINE-PHOTOGRAPHIC FILM  
QI NOT ASSIGNED  
QJ 61-117 PROGRAM CONTROLLER  
QK 26-001 PROJECTION EQUIPMENT-MOTION PICTURE  
QL 26-002 PROJECTION EQUIPMENT-STILL PICTURE  
QM 83-030 PROPELLER ASSEMBLY-CONSTANT PITCH  
QN 64-007 RECHARGING UNIT-CO2 PUMPING METHOD  
QO NOT ASSIGNED  
QP 89-002 RESCUE CHAMBER AND RECOMPRESSION TANK  
QO 55-002 REELING MACHINE-HOSE  
QR 32-039 REFRIGERATION SYSTEM-ABSORPTION  
QS 83-034 PROPELLER ASSEMBLY-CONTROLLABLE PITCH  
QT 64-008 PROPORTIONER-FOAM LIQ SEE ALSO DAMAGE CONTRL ACC  
QU 83-043 PROPULSION DRIVE UNIT-STEM  
QV 01-038 PUMP UNIT-PUMP AND ACCESSORIES INSTALLED AS A UNIT



CDC LAPL

QW 88-213 VALVE-OVERFLOW  
OX 01-011 PUMP-CENTRIFUGAL, POWER DRIVEN  
QY 32-023 REFRIGERATION-MECHANICAL  
QZ 42-001 REGULATOR-ELECTRICAL (EXCEPT ENGINE GENERATOR)  
Q0 88-231 VALVE-CROSS  
Q1 01-017 PUMP-CENTRIFUGAL, POWER DRIVEN, CLOSE-COUPLED OR COUPLING DESIGN  
Q2 88-245 VALVE-DIRECTIONAL INTERLOCK  
Q3 88-248 VALVE-PILOT, PNEUMATIC OPERATED  
Q4 01-001 PUMP-CENTRIFUGAL, BOILER FEED  
Q5 88-249 VALVE-CONTROL THERMAL  
Q6 41-048 CLEANING MACHINE-ELECTRIC AND OILBURNING  
Q7 88-251 VALVE-LOW PUMP SECTION, SAFETY TRIP  
Q8 88-252 VALVE-CONTROL AIR  
Q9 01-014 PUMP-HAND DRIVE, OSCILLATING, RECIPROCATING OR ROTARY  
RA 58-007 RACK-READY SERVICE  
RB 52-029 RAM-HYDRAULIC  
RC RC- REELS (FLEX)  
RD RD- RECORDER/REPRODUCERS (ELEX)  
RE RE- RELAY ASSEMBLY UNITS (ELEX/ORD)  
  
RF RF- RADIO FREQUENCY COMPONENTS (ELEX)  
RG RG- CABLES, RF BULK-(ELEX)  
RH 16-013 RECONDENSER SYSTEM-NITROGEN AND OXYGEN  
RI 834 COMMISSARY EQUIPMENT  
RJ 32-007 REFRIGERATION PURGE UNIT  
RK 46-010 RECORDER-PNEUMATIC AND ELECTRO-PNEUMATIC  
RL RL- REELING MACHINES (ELEX/ORD)  
  
RM 41-084 CLEANING MACHINE-TANK  
RN 55-003 REEL-HOSE  
RO RO- RECORDERS (ELEX/ORD)  
  
RP RP- REPRODUCERS (ELEX)  
RQ 32-029 REFRIGERATED TANK-FILM PROCESSING  
RR RR- REFLECTORS-EXCEPT ANTENNA REFLECTORS (ELEX)  
RS 32-001 REFRIGERATION SYSTEM-MECHANICAL  
RT RT- RECEIVER & TRANSMITTER (ELEX)  
RU C88 DAMAGE CONTROL EQUIPMENT AND ACCESSORIES  
RV R- RECEIVERS (ELEX)  
RW 42-002 REGULATOR-ENGINE GENERATOR, BATTERY CHRG, ELECTROMECH  
RX 42-007 REGULATOR-ENGINE GENERATOR, BATTERY CHRG, ELEX  
RY 42-100 REGULATOR-PRESSURE  
RZ 42-101 REGULATOR-FLOW, BOILER FEED WATER  
P0 88-253 VALVE-LINEAR DIRECTIONAL CONTROL WITH ACTUATOR  
R1 42-102 REGULATOR-FLOW, FLOAT OPERATED, DRAIN/MAKE-UP VALV  
R2 42-104 REGULATOR-PRESSURE OXYGEN SERVICE  
P3 99-004 RECEPTACLE ASSEMBLY-CO2 ABSORBENT  
R4 41-067 GRINDING MACHINE-UTILITY  
R5 20-003 RESISTOR-VARIABLE  
R6 20-004 RESISTOR-FIXED  
R7 41-104 REWINDING AND INSULATION MACHINES  
R8 20-001 RHEOSTAT  
R9 88-254 VALVE-REGULATING, COMPRESSED GAS  
SA SA- SWITCHING UNITS (ELEX)  
SB SB- SWITCHBOARDS (ELEX)  
SC 41-112 SANDER-BELT, DISK AND SPINDLE

CDC LAPL

SD 67-008 SANITATION EQUIPMENT SEE ALSO TOILET-MARINE  
SE 41-114 SAW-ABRASIVE-DISC, MASONRY  
SF 41-115 SAW-BAND

SG SG- GENERATOR-SIGNAL (ELEX/ORD)  
SH S- SHELTER (ELEX)  
SI 54-016 COMPOSING MACHINE-PHOTO PRINTING  
SJ 41-120 SAW- POWER HACK  
SK 43-017 SAW BAND, MEAT CUTTING  
SL 41-078 SAW SETTING MACHINE

SM SM- SIMULATORS (ELEX/ORD)  
SN SN- SYNCHRONIZERS (ELEX)  
SO NOT ASSIGNED  
SP 83-010 SEAL-SWIVEL JOINT TYPE  
SQ 41-145 SEALING MACHINE-HEAT  
SR 07-029 HEATER-SPACE, MULTI-FUEL WITH BLOWER  
SS 87-006 SELECTOR-SPEED SENSITIVITY  
ST ST- STRAPS (ELEX)  
SU SU- OPTICAL UNITS (ELEX)  
SV 67-010 SEWAGE TREATMENT SYSTEM-MULTI TOILETS OR URINALS  
SW 41-080 SEWING MACHINE-HOUSEHOLD AND INDUSTRIAL  
SX 83-017 SHAFT-PROPULSION, SHIP  
SY 41-119 SAW-JIG, WOOD WORKING  
SZ 83-002 SEAL-STERN TUBE SHAFT  
SO 43-023 SINK-SCULLERY  
SI 41-123 SHAPER-METAL CUTTING AND WOODWORKING  
S2 41-096 BENDING OR FOLDING MACHINE-MANUAL  
S3 99-007 SHELL-MISSILE TUBE  
S4 85-014 SHOCK ABSORBER-GAS, OIL OR PNEUMATIC  
S5 41-081 SHOE FINISHING AND STITCHING MACHINE  
S6 391 SHOP EQUIPMENT AND ACCESSORIES ON SHIPS  
S7 40-005 SHUTTER  
S8 41-125 SIEVE-FOUNDRY  
S9 43-052 SIFTING MACHINE-FLOUR, ELECTRIC  
TA TA- TELEPHONE APPARATUS (ELEX)  
TB TB- TOWED BODY (ELEX)  
TC TC- TOWED CABLE (ELEX)  
TD TD- TIMING DEVICES (ELEX)  
TE 92-007 TANK-LIQUID STORAGE  
TF TF- TRANSFORMERS (ELEX)  
TG TG- POSITIONING DEVICES-TILT AND/OR TWIN (ELEX)  
TH TH- TELEGRAPH APPARATUS (ELEX)  
TI 61-107 TRANSDUCER-MOTIONAL PICKUP  
TJ 88-049 VALVE-MANEUVERING AND THROTTLE  
TK TK- TOOL KITS (ELEX)  
TL TL- TOOLS (ELEX)  
TM 88-250 VALVE-MANUAL RESET  
TN TN- TUNING UNITS (ELEX)  
TO NOT ASSIGNED  
TP AN/ A INVISIBLE LIGHT, HEAT RADIATION  
TQ 52-012 TANK-ACCUMULATOR, HYDRAULIC  
TR TR- TRANSDUCERS (ELEX)

TS TS- TEST AND MEASURING EQUIPMENT NOT OTHERWISE CLASSIFIED (ELEX/ORD)  
TT TT- TELETYPE WRITER AND FACSIMILE APPARATUS (ELEX)

## CDC LAPL

TU 52-048 COMPENSATOR-HYDRAULIC  
TV TV- TESTER-TUBE (ELEX)  
TW TW- TAPE UNITS-USED FOR OPERATIONAL TEST AND CHECK OUT (ELEX)  
TX T- TRANSMITTERS-ALL TYPES EXCEPT TELEPHONE (ELEX)  
TY 31-006 TENSIONING DEVICE-COUNTERWEIGHT  
TZ 46-002 TEST EQUIPMENT-ANALYZER  
TQ 41-149 PUMP-AIRLESS SPRAY PAINT  
TI 46-006 TEST FIXTURES, SETS, STANDS AND CALIBRATORS, ALL TYPES  
T2 41-150 CLEANER-VACUUM, ELECTRIC  
T3 43-029 TOASTER-ELECTRIC, INTERMITTENT  
T4 43-030 MIXER AND TANK-FLUID ELECTRIC  
T5 43-058 FOOD CUTTER AND MIXER-ELECTRICAL  
T6 43-061 COMPACTOR-TRASH  
T7 46-013 TORSION METER-PROPULSION SHAFTING  
T8 48-010 FILTER-AIR, ELECTROSTATIC  
  
T9 41-132 TEST EQUIPMENT-MISCELLANEOUS (HM&E/CRC)  
UA U- CONNECTORS-AUDIO AND POWER (ELEX)  
UB C35 LAUNDRY EQUIPMENT AND ACCESSORIES  
UC C22 STEERING GEAR, EMERGENCY  
UD C21 HYDRAULIC FILTER UNIT, PORTABLE  
UE C30 PORTABLE CLEATS  
UF C23 INDUSTRIAL GASES GENERATING, HANDLING AND STORAGE  
UG UG- CONNECTORS-RF (ELEX)  
UH DIRECTOR-WEAPON SYSTEM  
UI NOT ASSIGNED  
UJ 88-014 VALVE-GATE, HYDROCARBON FUEL SERVICE  
UK 99-018 CABLE ASSEMBLY-ELECTRICAL  
UL 99-031 DISPENSER-CHAFF  
UM 88-032 VALVE-REFRIGERATION SHUT OFF 3/4 IN AND LARGER  
UN 52-005 MISSILE HANDLING SYSTEM-HYDRAULIC  
UD NOT ASSIGNED  
UP 41-071 MAGNETIC INSPECTION UNIT PORTABLE  
UQ 50-003 PANEL-TEST ELECTRICAL  
UR C27 CARGO HANDLING ACCESSORIES  
US 50-006 PANEL-INTERIOR COMMUNICATION  
UT 50-008 PANEL-GYRO OR DEAD RECKONING CONTROL  
UU 86-004 SAFELIGHT-DARKROOM, PHOTOGRAPHIC  
UV 28-023 PLOTTING AND TRACING EQUIPMENT  
UW 55-004 REEL-CABLE  
UX 19-002 RELAY-ELECTRICAL SEE ALSO TEST EQUIPMENT  
UY 55-001 REELING MACHINE-CABLE  
UZ 46-003 RECORDER-ELECTRICAL AND ELECTRONIC  
UO 41-118 SAW-CIRCULAR  
U1 SHIELD ASSEMBLY-WEAPON SYSTEM  
U2 TRAIN POWER DRIVE ASSEMBLY-WEAPON SYSTEM  
U3 ELEVATION POWER DRIVE ASSEMBLY-WEAPON SYSTEM  
U4 TRAIN TRANSMISSION ASSEMBLY-WEAPON SYSTEM  
U5 ELEVATION TRANSMISSION ASSEMBLY-WEAPON SYSTEM  
U6 TRAIN RECEIVER REGULATOR-WEAPON SYSTEM  
U7 ELEVATION RECEIVER REGULATOR-WEAPON SYSTEM  
U8 CONTROL ASSEMBLY-WEAPON SYSTEM  
U9 FUSE SETTER ASSEMBLY-WEAPON SYSTEM  
VA 88-103 VALVE-BALANCING  
VB 88-149 VALVE-ANGLE  
VC 88-039 VALVE-ASTERN



# CDC LAPL

VP 838 ENVIRONMENTAL CONTROL SYSTEM SPARES AND REPAIR PARTS  
VE 88-001 VALVE-BALL  
VF CONTROL-LAUNCHER  
VG 88-038 VALVE-BUTTERFLY  
VH V- VEHICLES-CARTS, DOLLIES, VANS U/W ELECTRONIC EQUIPMENT (ELEX)  
VI 88-057 VALVE-GLOBE  
VJ 88-036 VALVE-CHECK  
VK 88-175 VALVE-SPECIAL  
VL 88-019 VALVE-PILOT AND LINE PRESSURE OPERATED, DIAPHRAGM AND PISTON TYPES  
VM 88-171 VALVE-RELAY AIR, DIAPHRAGM AND PISTON TYPES  
VN 88-026 VALVE-EXPANSION  
VO NOT ASSIGNED  
VP 88-212 VALVE-FLOAT  
VQ 88-024 VALVE-FUEL OIL REGULATING  
VR 88-013 VALVE-GATE, ALL TYPES EXCEPT HYDROCARBON FUEL SERVICE  
VS VS- SIGNALING EQUIPMENT-VISUAL (ELEX)  
VT 88-124 VALVE-LINEAR, DIRECTIONAL CONTROL  
VU 88-189 VALVE-INSTANTANEOUS HEATER  
VV 88-071 VALVE-NEEDLE  
VW 88-217 VALVE-PILOT CONTROL, BELLOWS AND SOLENOID OPERATED  
VX 88-033 VALVE-PLUG  
VY 88-020 VALVE-PRESSURE REGULATING, STEAM SERVICE  
VZ 88-025 VALVE-FLUSH  
VO 88-102 VALVE-ROTARY, DIRECTIONAL CONTROL  
V1 88-176 VALVE-EXHAUST AND RELIEF  
V2 88-191 VALVE-FEEDWATER REGULATING  
V3 87-013 VALVE - SEA, UNDERWATER LOG  
V4 88-152 VALVE-MAIN BALLAST  
V5 88-144 VALVE-MANIFOLD (EXCLUDES VALVE AND TRAP MANIFOLDS)  
V6 88-216 VALVE-SOLENOID  
V7 88-010 VALVE-TEMPERATURE REGULATING, AUTOMATIC OPERATION  
V8 88-166 VALVE-HINGE TYPE  
V9 88-055 VALVE-Y  
WA 91-001 WASHING MACHINE - LAUNDRY  
WB 41-086 WELDING AND BRAZING MACHINE - BAND SAW BLADE  
WC 82-002 WELDING MACHINE - RESISTANCE  
WD WD- CABLE, 2 CONDUCTOR, NON-RF (ELEX)  
WE 82-005 WELDING MACH-ARC, ADJUST, CONST VLTG CR CONST CURR TRANSFORMER RECTIFIER  
WF WF- CABLE, 4 CONDUCTOR, NON-RF (ELEX)  
WG 82-001 WELDING SET - TUNGSTEN ARC, INERT GAS SHIELDED, NONCONSUMABLE ELECTRODE  
WH 82-004 WELDING SET - ARC, INERT GAS SHIELDED, CONSUMABLE ELECTRODE  
WI NOT ASSIGNED  
WJ 82-007 WELDING SET - STUD, ELECTRIC ARC  
WK 62-001 WINCH - HAND OPERATED  
WL 62-002 WINCH - STEAM OPERATED  
WM WM- CABLE, MULTIPLE CONDUCTOR, NON-RF (ELEX)  
WN 62-004 WINCH - ELECTRIC - HYDRAULIC  
WO NOT ASSIGNED  
WP 62-006 WINCH - ENGINE DRIVEN, GASOLINE OR DIESEL  
WQ 62-007 WINCH - PNEUMATIC DRIVE  
WR 41-087 WINDING MACHINE COIL  
WS WS- CABLE, SINGLE CONDUCTOR, NON-RF (ELEX)  
WT WT- CABLE, 3 CONDUCTOR, NON-RF (ELEX)  
WU 63-003 WINDLASS - ELECTRICAL MECHANICAL SEE ALSO ANCHOR HANDLING ACCESSORIES  
WV 63-004 WINDLASS - HAND OPERATED SEE ALSO ANCHOR HANDLING ACCESSORIES  
WW 31-025 WINDOW - OBSERVATION, OPTICAL, PORTLIGHT

## CDC LAPL

WX 99-001 WINDOW - NON ICING  
WY 35-001 WIPER-WINDOW PNLM, RTY OR VERT TYPE, ELEC OR MNL (HM&E/ORD)

WZ 35-002 WIPER - WINDOW, PENDULUM TYPE, PNEUMATIC  
W0 FIRING CUTOFF ASSY-WEAPON SYSTEM  
W1 CARRIAGE ASSEMBLY-WEAPON SYSTEM  
W2 STAND ASSEMBLY-WEAPON SYSTEM  
W3 SLIDE ASSEMBLY-WEAPON SYSTEM  
W4 RAMMER ASSEMBLY-WEAPON SYSTEM  
W5 HOUSING ASSEMBLY-WEAPON SYSTEM  
W6 GUN BARREL ASSEMBLY-WEAPON SYSTEM  
W7 GAS EJECTOR ASSEMBLY-WEAPON SYSTEM  
W8 EMPTY CASE EJECTOR ASSY-WEAPON SYSTEM  
W9 HOIST ASSEMBLY-WEAPON SYSTEM  
XA C00 COMPRESSOR GAS TURBINE REPAIR PARTS  
XB BULKHEADS-STRUCTURAL  
XC CANVAS  
XD DECK COVERINGS  
XE E34 MISCELLANEOUS FLAG ALLOWANCES, MESSING GEAR  
XF C36 SURVIVAL EQUIPMENT  
XG C41 LIFTING AND HANDLING GEAR MAIN AND AUXILIARY MACHINERY  
XH C43 TOOLS AND ACCESSORIES MAIN PROPULSION SHAFTING  
XI C38 ENVIRONMENTAL CONTROL SYSTEM APPLIANCES  
XJ C47 PUMPS, PORTABLE  
XK C51 BOILER TOOLS AND ACCESSORIES  
XL C58 TOOLS AND ACCESSORIES DISTILLING PLANT  
XM C59 TOOLS AND ACCESSORIES REFRIGERATION SYSTEM  
XN DOOR-NON STRUCTURAL  
XO NOT ASSIGNED  
XP C48 HOSE AND MISCELLANEOUS HOSE FITTINGS  
XQ C61 TOOLS AND ACCESSORIES GENERATORS  
XR C18 RIGGING  
XS SHEATHING  
XT C62 TOOLS AND ACCESSORIES ELECTRIC POWER DISTRIBUTION  
XU C64 LIGHT EXTENSION  
XV C65 PORTABLE INTERIC COMMUNICATION EQUIPMENT  
XW C66 LIGHT SIGNAL PORTABLE  
XX C67 ELECTRICAL AND ELECTRONIC HAND TOOLS  
XY C69 IOTIC SUPPORT EQUIPMENT  
XZ C70 FLAGS AND PENNANTS  
X0 C75 ASROC/TORPEDO/MINE HANDLING  
X1 DECK  
X2 DOME-SONAR(STRUCT AND NON STRUCT)  
X3 BALLAST  
X4 PLATFORM DECK  
X5 FLAT  
X6 C77 NBC WARFARE EQUIPMENT  
X7 C81 MINESWEEPING EQUIPMENT  
X8 C83 AIRCRAFT HANDLING AND STOWAGE  
X9 C85 PROJECTION EQUIPMENT AND ACCESSORIES  
YA 54-009 TABLE-LITHOGRAPHIC LAYOUT  
YB 60-006 STEERING GEAR  
YC 46-C11 TRITIUM AIR MONITOR  
YD 85-C36 TROLLEY - MONORAIL AND BI-RAIL  
YE 85-018 TRUCK/DOLLY/ CRADLE ASSEMBLY SEE ALSO CARGO HNDL ACCY (HM&E/ORD)

## CDC LAPL

YF 41-139 TUBE AND FLUE CLEANER - AIR MOTOR DRIVEN  
YJ 41-140 TUBE AND FLUE CLEANER - ELECTRIC MOTOR DRIVEN  
YH 05-001 TURBINE-STEAM, MAIN PROPULSION  
YI NOT ASSIGNED  
YJ 61-029 CONTROL PANEL-AUTOMATIC OR MANUAL  
YK 61-048 ELECTRONICS SUB-ASSEMBLIES  
YL 82-003 WELDING MACHINE - ARC, DRIVEN BY GAS OR DIESEL INTERNAL COMBUSTION ENGINE  
YM 61-065 INDUCTOR-VERNIER  
YN 82-006 WELDING MACHINE - ARC, ELECTRIC MOTOR DRIVEN  
YO NOT ASSIGNED  
YP 62-003 WINCH - ELECTRIC  
YQ 63-001 WINDLASS - STEAM DRIVEN SEE ALSO ANCHOR HANDLING ACCESSORIES  
YR 05-006 TURBINE-STEAM, AUXILIARY  
YS 05-022 TURBINE - WATER DRIVEN  
YT 05-028 TURBINE - GAS, PROPULSION AND AUXILIARY SERVICE OVER 2000 HORSEPOWER  
YU 05-029 TURBINE - GAS, PROPULSION AND AUX SERVICE 2000 HORSEPOWER OR UNDER  
YV 05-025 TURBINE AND FAN, INTEGRAL FORCED DRAFT AIR SERVICE FOR MAIN BOILER  
YW 05-019 TURBINE CONTROL - PROPULSION  
YX 05-024 TURBO/SUPERCHARGER - DIESEL ENGINE  
YY 85-003 TURNTABLE - TROLLEY OR BALL TYPE, MANUAL OR POWER DRIVEN  
YZ 85-009 TORPEDO HANDLING UNIT (HM&E/ORD)

Y0 C12 HULL FITTINGS, LASHING GEAR AND ACCESS CLOSURES  
Y1 53-002 CAPSTAN-POWER OPERATED, ELECTRIC OR HYDRAULIC  
Y2 63-002 WINDLASS - ELECTRIC HYDRAULIC SEE ALSO ANCHOR HANDLING ACCESSORIES  
Y3 C87 TEST, MEASURING AND INDICATING EQUIPMENT  
Y4 C90 RADIATION MONITORING AND COUNTERMEASURES  
Y5 C93 SHIPBOARD FIREFIGHTING AND ACCESSORIES

Y6 A00 ORDNANCE TOOLS AND ACCESSORIES (AEL/ORD)  
Y7 WELDMENT  
Y8 C94 SALVAGE TOOLS AND EQUIPMENT  
Y9 C95 DIVING EQUIPMENT  
ZA 61-086 STAND, CONTROL-STEERING  
ZB 61-087 STAND, CONTROL PROPULSION  
ZC 91-009 STARCH COCKER-LAUNDRY  
ZD 61-482 VALVE OPERATOR-HYDRAULIC OPERATOR  
ZE 34-001 STARTER-ENGINE, ELECTRICAL  
ZF 34-002 STARTER-ENGINE, HYDRAULIC  
ZG 34-003 STARTER-ENGINE, DIRECT COMBUSTION AND/OR GAS TURBINE  
ZH 34-005 STARTER-ENGINE, AIR MOTOR OR AIR TURBINE TYPE  
ZI NOT ASSIGNED  
ZJ 60-001 STEERING GEAR-ELECTRO-HYDRAULIC, MARINE, LINK, TILLER TYPE  
ZK 60-003 STEERING GEAR-ELECTRIC, MARINE, DRIVE SHAFT/CABLE, GROUND, HAND OPERATED TYPE  
ZL 60-007 STEERING GEAR-ELECTRIC, STEER MOTOR-CHAIN DRIVE TYPE  
ZM ZM- IMPEDANCE MEASURING DEVICES (ELEX)  
ZN 60-008 STEERING GEAR-EMERGENCY SUBMERSIBLE TYPE  
ZO NOT ASSIGNED  
ZP 61-027 STEERING HEAD-GYROPILOT  
ZQ 54-020 STITCHER-BOOK AND PAMPHLET  
ZR 64-005 STRAINER-PRESSURE, FIRE HOSE WITH BALL VALVE  
ZS 64-014 FIRE EXTINGUISHING SYSTEM-TWIN AGENT  
ZT C99 TOOLS AND EQUIPMENT MISCELLANEOUS  
ZU 64-015 FIRE EXTINGUISHING UNIT-DRY CHEMICAL  
ZV D39 DSRV RESCUE CONTROL CENTER  
ZW 64-016 NOZZLE ASSEMBLY-TWIN AGENT



CDC LAPL

ZX 41-113 SAND MULLER  
ZY 75-001 STRAINER-SEDIMENT  
ZZ MISCELLANEOUS ITEMS NOT OTHERWISE CODED  
ZO E24 MISCELLANEOUS FLAG ALLOWANCES, NAVIGATION INSTRUMENTS  
ZI 61-072 CONTROL-HUMIDITY  
ZJ 41-129 SURFACER-WOODWORKING  
ZK 85-027 SWAY BRACE ASSEMBLY-ELECTRIC CHAIN HOIST DRIVE  
ZL 89-005 SWIMMERS RECOVERY SYSTEM  
ZM E36 MISCELLANEOUS FLAG ALLOWANCES, VACUUM CLEANER  
ZN 61-074 COMPUTER-SHIPBOARD  
ZO E85 MISCELLANEOUS FLAG ALLOWANCES, PROJECTION EQUIPMENT  
ZP 61-389 BELLOWS ASSEMBLY-PRESSURE RELIEF  
ZQ NOT ASSIGNED  
ZA NOT ASSIGNED  
ZB NOT ASSIGNED  
ZC TELEMETERING SETS  
ZD NOT ASSIGNED  
ZE NOT ASSIGNED  
ZF NOT ASSIGNED  
ZG NOT ASSIGNED  
ZH NOT ASSIGNED  
ZI NOT ASSIGNED  
ZJ NOT ASSIGNED  
ZK NOT ASSIGNED  
ZL NOT ASSIGNED  
ZM NOT ASSIGNED  
ZN NOT ASSIGNED  
ZO NOT ASSIGNED  
ZP NOT ASSIGNED  
ZQ NOT ASSIGNED  
ZR OR ORDAITS AND ORDNANCE MODIFICATIONS-OTHER THAN SWITCHBOARD  
ZS RS ORDAITS AND ORDNANCE MODIFICATIONS-SWITCHBOARD ONLY  
ZT NOT ASSIGNED  
ZU NOT ASSIGNED  
ZV NOT ASSIGNED  
ZW NOT ASSIGNED  
ZX NOT ASSIGNED  
ZY NOT ASSIGNED  
ZZ NOT ASSIGNED  
00 NLAPLW NLAPLW-ITEM LISTED BY SPCC AS NOT LAPL WORTHY  
00 INCOMP INCOMP-ITEM LISTED BY SPCC AS INCOMPLETE  
01 06-001 COMPRESSOR-RECIPROCATING, OTHER  
02 06-004 COMPRESSOR-CENTRIFUGAL, REFRIGERATION  
03 06-201 COMPRESSOR-RECIPROCATING, AIR, HIGH, PRESSURE  
04 06-202 COMPRESSOR-RECIPROCATING, AIR, LOW, PRESSURE  
05 06-203 COMPRESSOR-CENTRIFUGAL, AIR, LOW PRESSURE  
06 06-204 COMPRESSOR-ROTARY, AIR, LOW PRESSURE  
07 06-501 COMPRESSOR-VAPOR ROTARY  
08 AVIATION ORDNANCE EQUIPMENT  
09 04-001 CONDENSER-REFRIGERATION, WATER, COOLED  
1A VALVE-SCUPPER (INCL. DECK DRAIN VALVES)  
1B 41-004 BOOTH-SPRAYING  
1C 39-005 CLUTCH-FRICTION  
1D B37 PROPANE GAS AND CYLINDERS  
1E MACK  
1F 14-007 FUSE UNIT ASS

CDC LAPL

1G 41-045 GRINDING MACHINE-UTILITY (INCL BUFFING CAPABILITY)  
1H 76-006 HYPOCHLORINATION UNIT  
1I NOT ASSIGNED  
1J 01-012 PUMP-FUEL, ALL TYPES INCLUDING ELECTRIC DRIVE DESIGN  
1K 54-001 PUNCHING MACHINE-PAPER  
1L 61-049 SYNCHRO-RECEIVER, TRANSMITTER, RECEIVER, TRANSMITTER  
1M 17-018 MOTOR-AC/DC MAIN PROP, UNLIMITED HORSEPOWER  
1N C32 FURNISHINGS AND CUTFITTINGS  
1O NOT ASSIGNED  
1P 39-003 POWER TAKE OFF-ACCESSORY DRIVE  
1Q 01-005 PUMP-ROTARY, POWER DRIVEN  
1R 43-057 RINSE-SANITIZER  
1S 86-001 SINK-PHOTOGRAPHIC PROCESSING  
1T 01-013 PUMPING UNIT-CENTRIFUGAL, POWER DRIVEN, AIRCRAFT FUELING  
1U HEAD-SPRINKLER-FIRE PROTECTION  
1V 88-004 VALVE-SAFETY RELIEF, MAIN PROPULSION BOILER  
1W NOT ASSIGNED  
1X 52-014 CYLINDER-ACTUATING LINEAR SEE ALSO JACK ASSEMBLY/SOCK AB  
1Y 57-008 CRANE-ASROC MISSILE  
1Z NOT ASSIGNED  
10 NOT ASSIGNED  
11 04-100 CONDENSER-STEAM, ALL TYPES  
12 01-003 PUMP-CENTRIFUGAL, MAIN CONDENSER CIRCULATING  
13 01-004 PUMP-ROTARY, POWER DRIVEN, CAM AND PLUNGER DESIGN  
14 01-006 PUMP-ROTARY, POWER DRIVEN, IMPELLER DESIGN WITH TIMING GEARS  
15 01-007 PUMP-ROTARY, POWER DRIVEN, EXTERNAL GEAR DESIGN  
16 32-009 CONDENSING UNIT-REFRIGERATION  
17 99-023 CONNECTOR-ELECTRICAL SEE BOX-ELECTRICAL  
18 61-030 CONSOLE-CONTROL AND POWER  
19 09-004 CONTROL-BATTERY CHARGER  
2A LAUNCHING SYSTEM (MISSILE/ROCKET)  
  
2B 99-008 BOX-ELECTRICAL (HW&E/CRD)  
2C 39-006 CLUTCH-MAGNETIC  
2D 844 PROPELLER, SPECIAL TOOLS AND HANDLING GEAR  
2E LAUNCHERS (MISSILE/ROCKET)  
2F 850 GOVERNOR OVERSPEED SPARES  
2G 25-024 GYRO COMPASS-ARMA MK 7,8,9,10,21,22,24, & 26  
2H 31-003 HATCH COVER  
2I NOT ASSIGNED  
2J ANTI-ICING SYSTEM  
2K 41-074 PUNCHING, SHEARING, AND NIBBLING MACHINE-METAL  
2L 32-034 SEPARATOR-OIL, REFRIGERANT  
2M 41-089 MOTOR-PNEUMATIC  
2N 83-037 OIL DISTRIBUTION BOX OR OIL INJECTOR ASSEMBLY  
2O NOT ASSIGNED  
2P 52-047 POWER UNIT-HYDRAULIC  
2Q 39-001 CLUTCH-POSITIVE DRIVE AND ROTATING ELEMENT  
2R 41-075 RIVETING MACHINE-ELECTRIC OR PNEUMATIC  
2S 41-082 SKIVING AND BEVELING MACHINE-SHOE, SOLE, HAND OPERATED  
2T 41-085 THREADING MACHINE-PIPE AND BOLT SEE ALSO SHOP ACCESSORIES-TOOLS X ECP  
2U MAGAZINES-WEAPON SYSTEM  
2V GUN MOUNTS  
2W NOT ASSIGNED  
2X CASTING  
2Y 57-009 CRANE-ELECTRIC HYDRAULIC



CDC LAPL

2Z 21-011 SWITCH-FLOAT, LIQUID LEVEL, FLOW DETECTING  
20 61-008 CONTROL-STEERING SYSTEM  
21 61-009 CONTROL-MECHANICAL  
22 NOT ASSIGNED  
23 61-015 CONTROL-NAVIGATIONAL LIGHT  
24 61-022 CONTROL-ACOUSTIC DEVICE  
25 61-024 CONTROL-MECHANICAL PUSH PULL STROKE  
26 61-026 CONTROL-ELECTRIC LIGHT  
27 61-040 CONTROL-VALVE OPERATOR  
28 61-064 CONTROL-HUMIDITY  
29 61-067 CONTROL-REMOTE TRANSMITTERS AND RECEIVERS  
3A NOT ASSIGNED  
3B 80-001 BRAKE-ELECTRIC, SHOE OR DISC, SOLENOID  
3C 39-007 CLUTCH-MAGNETIC PARTICLE  
3D 841 PROPULSION MAIN DRIVE DIESEL ENGINE EQUIPMENT AND ACCESSORIES  
3E NOT ASSIGNED  
3F FRAME-STRUCTURAL  
3G 25-028 GYRO COMPASS-SPERRY MK 11, 14, 17, 18, & 19  
3H NOT ASSIGNED  
3I NOT ASSIGNED  
3J 21-018 SWITCHING UNIT-POWER TRANSFER  
3K 76-001 PURIFIER-CENTRIFUGAL  
3L 93-009 SEPARATOR MISTURE  
3M 52-046 MOTOR-HYDRAULIC  
3N 01-018 PUMP-CENTRIFUGAL, SINGLE STAGE, CLOSE-COUPLED, NAVY STD  
3O NOT ASSIGNED  
3P 61-091 POWER UNIT-GYRO PILOT  
3Q 01-009 PUMP-ROTARY, POWER DRIVEN, VANE DESIGN, FIXED OR VAR DELIVERY  
3R 87-002 RODMETER-UNDERWATER LOG SYSTEM  
3S 32-020 SODA FOUNTAIN  
3T 61-056 THRUSTER-MOTOR DRIVEN, HYDRAULICALLY OPERATED  
3U 858 DISTILLING PLANT ACCESSORIES  
3V 16-016 VAPORIZER SYSTEM - LIQUID OXYGEN OR NITROGEN  
3W AN/ C CARRIER  
3X 06-005 COMPRESSOR-RECIPROCATING, REFRIG, VERT OPR, SEMI-HERM  
3Y 57-010 CRANE STERN  
3Z AN/ D RADIAC  
30 61-071 CONTROL-PHOTOELECTRIC CELL  
31 61-079 CONTROL-CONSTANT FREQUENCY  
32 61-096 CONTROL-TRANSMISSION REVERSING MECHANISM  
33 61-108 CONTROL-PERISCOPE  
34 61-110 CONTROL-SENSOR, DEPTH AND TRIM  
35 61-402 CONTROL-FLAME FAILURE  
36 61-444 CONTROL-GENERATOR, COOLER FEEDWATER  
37 61-481 CONTROL-SERV, CONTROLLABLE PITCH PROPELLERS  
38 87-004 CONTROL-UNDERWATER LOG  
39 61-019 CONTROL TRANSMITTER-PRESSURE DIFFERENTIAL  
4A AN/ G TELEGRAPH OR TELETYPE  
4B BULKHEAD-NONSTRUCTURAL  
4C 39-013 CLUTCH- ALL OTHER TYPES  
4D 31-019 DOOR-MISSILE TUBE  
4E AN/ I INTERPHONE AND PUBLIC ADDRESS  
4F FORGING  
4G 25-039 GYRO COMPASS-SPERRY MK 23 AND 27  
4H AN/ J ELECTROMECHANICAL OR INERTIAL WIRE COVERED  
4I NOT ASSIGNED



CDC LAPL

4J 22-001 SWITCHBOARD-DEGAUSSING  
4K 61-012 CONTROL-DEGAUSSING  
4L 61-011 SERVO GEAR TRAIN  
4M 18-001 MOTOR GENERATOR  
4N 31-002 OPERATING MECHANISM-DOCK, RAMP, STERN GATE & BRIDGE  
4O NOT ASSIGNED  
4P 41-069 PRESS-GROMMET AND EYELET  
  
4Q AN/ K TELEMETRY (ELEX/ORD)  
4R 31-019 RUDDER-INCLUDING STOCKS, POSTS AND CARRIERS  
4S 41-127 SOLDER AND DESOLDER UNIT-ELECTRIC  
4T 61-005 TIMER  
4U AN/ L COUNTERMEASURES  
4V 43-014 VEGETABLE PEELING MACHINE - ELECTRIC  
4W AN/ M METEOROLOGICAL  
4X C33 CLOTHING STANDARD OUTFIT, AIR PURIFICATION AND LIFE PRESERVERS  
4Y 57-011 CRANE-HEAVY EQUIPMENT  
4Z 01-019 PUMP CENTRIFUGAL, POWER DRIVEN, PERIPHERAL DESIGN  
40 61-075 CONTROL-STEERING AND DIVING ASSEMBLY  
41 61-062 CONTROL-PNEUMATIC  
42 61-066 CONTROL-TELE MOTOR STEERING  
43 61-089 CONTROL-SPLIT PLANE  
44 61-132 CONTROL-FEED WATER SYSTEM  
45 61-251 CONTROL- PRESSURE, TEMP, LEVEL AND FLOW  
46 83-040 CONTROL-CONTROLLABLE PITCH PROPELLER  
47 15-002 CONTROLLER/STARTER, AC  
48 AN/ N SOUND IN AIR  
49 AN/ P RADAR  
5A AN/ Q SONAR AND UNDERWATER SOUND  
5B 80-002 BRAKE-ELECTRIC, MOTOR OPERATED  
5C 43-015 COFFEE MAKER  
5D 31-017 DOOR-HINGED TYPE, POWER OPERATED  
5E AN/ R RADIO  
5F FOUNDATION  
5G 25-008 GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL  
5H AN/ S SPECIAL TYPES MAGNETIC, ETC., OR COMBINATIONS OF TYPES  
5I NOT ASSIGNED  
5J 22-002 SWITCHBOARD-INTERIOR COMMUNICATION  
5K PLATFORM-SERVICE  
5L STRUCTURE-DECKHOUSE  
5M AN/ T TELEPHONE (WIPE)  
5N 28-009 OPTICAL NAVIGATIONAL AIDS ALSO SEE SPECIFIC EQUIPMENT  
5O NOT ASSIGNED  
5P 41-058 PRESS-HYDRAULIC, MANUAL OR POWER OPERATED  
5Q 01-008 PUMP-ROTARY, POWER DRIVEN, INTERNAL GEAR DESIGN  
5R B21 HYDRAULIC SYSTEM TOOLS AND REPAIR PARTS  
5S 41-126 SOLDERING AND BRAZING OUTFIT, ELECTRIC  
5T TRUNK-STRUCTURAL  
5U AN/ V VISUAL AND VISIBLE LIGHT  
5V 87-007 VENT, AIR - U/W LOG EQUIPMENT  
5W AN/ W ARMAMENT (PECULIAR TO ARMAMENT, NOT OTHERWISE COVERED)  
5X 01-021 PUMP-CENTRIFUGAL, TURBINE DRIVEN, GASLINE SERVICE  
5Y 57-013 CRANE-GANTRY  
5Z B62 PORTABLE STORAGE BATTERIES AND POWER DISTRIBUTION ACCESSORIES  
50 AN/ X FACSIMILE OR TELEVISION  
51 AN/ Y DATA PROCESSING

CDC LAPL

52 AUTOMOTIVE & CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 95)  
53 MISC. PARTS LISTS FOR SHIPS (INCL ALL APLS STARTING WITH 89000)  
54 MAINTENANCE & REPAIR SHIP EQUIPMENT (INCL ALL COMMODITY CLASS 12)  
55 CHEMICAL WARFARE EQUIPMENT (INCL ALL COMMODITY CLASS 47)  
56 SICK-BAY EQUIPMENT (INCL ALL COMMODITY CLASS 84)  
57 01-020 PUMP-CENTRIFUGAL, POWER DRIVEN, HORIZONTAL, SPLIT CASE DESIGN  
58 RIGGING & RIGGING GEAR (INCL ALL COMMODITY CLASS 90)  
59 CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 96)  
6A 99-015 ARRESTOR-ELECTRICAL  
6B 01-028 PUMP-CENTRIFUGAL, TURBINE DRIVEN, HORIZONTAL, CLOSE-COUPLED  
6C 54-023 COLLATOR  
6D 31-008 DOOR-METAL SLIDING  
6E SPECIAL POWER PLANT EQUIPMENT (INCL ALL COMMODITY CLASS 98)  
6F NOT ASSIGNED  
6G 25-010 GYRO COMPASS EQUIPMENT-ALARMS-AUDIBLE & VISIBLE  
6H NOT ASSIGNED  
6I NOT ASSIGNED  
6J 22-004 SWITCHBOARD-PROPULSION  
6K PYROTECHNIC EQUIPMENT  
6L SEA CHEST  
6M E99 MISCELLANEOUS FLAG ALLOWANCES, FURNITURE AND MISC. EQUIPMENT  
6N 87-012 OSCILLATOR AND AMPLIFIER-U/W LOG EQUIPMENT  
6O NOT ASSIGNED  
6P 41-100 PRESS-ARBOR, MANUAL OPERATION  
6Q NOT ASSIGNED  
6R NOT ASSIGNED  
6S 61-046 SOLENOID-ELECTRIC  
6T 43-026 TOASTER-ELECTRIC  
6U NOT ASSIGNED  
6V 31-020 VENTILATOR - DECK  
6W NOT ASSIGNED  
6X B16 ACCESS CLOSURES OPERATING SPARES  
6Y 57-016 CRANE-KINGPOST  
6Z NOT ASSIGNED  
60 15-010 CONTROLLER, DC  
61 NOT ASSIGNED  
62 25-014 CONVERTER-SIGNAL DATA  
63 01-022 PUMP-CENTRIFUGAL, POWER DRIVEN, FOR COMMERCIAL DISHWASHING MACHINE  
64 01-023 PUMP-CENTRIFUGAL, POWER DRIVEN, SUBMARINE TRIM AND DRAIN SERVICE  
65 59-006 CONVEYOR-POWER OPERATED, BELT OR VERTICAL TRAY TYPE  
66 NOT ASSIGNED  
67 03-001 COOLER-FLUID, SHELL/TUBE CONSTRUCTION  
68 01-026 PUMPING UNIT-CENTRIFUGAL, ELECTRIC MOTOR DRIVEN, FOR STEAM SYSTEMS  
69 03-002 COOLER-FLUID, TYPE B  
7A APPENDAGES-SHELL  
7B 80-003 BRAKE-PNEUMATIC  
7C 41-009 COLLECTOR UNIT-DUST  
7D 43-054 DOUGH INTERMEDIATE PROOFING MACHINES  
7E NOT ASSIGNED  
7F NOT ASSIGNED  
7G 25-011 GYRO COMPASS EQUIPMENT-CABINET-GYRO & GUID COMP STOR  
7H NOT ASSIGNED  
7I NOT ASSIGNED  
7J 22-009 SWITCHBOARD-ALARM  
7K NOT ASSIGNED  
7L STANCHIONS

CDC LAPL

7M 51-006 MOUNT-RESILIENT  
7N 41-090 OVEN-THERMAL DRYING, ELECTRIC  
7O NOT ASSIGNED  
7P 44-008 PRESSURE REDUCING STATION  
7Q NOT ASSIGNED  
7R NOT ASSIGNED  
7S 81-001 SOOT BLOWERS  
7T TORPEDO TUBE ASSEMBLY  
7U NOT ASSIGNED  
7V 61-054 VERTICAL REFERENCE  
7W NOT ASSIGNED  
7X NOT ASSIGNED  
7Y 41-039 CUT-OFF MACHINE-ABRASIVE DISK, METAL CUTTING  
7Z 21-023 SWITCH-PRESSURE AND/OR THERMOSTATIC  
70 03-003 COOLER-FLUID, ENGINE JACKET WATER HULL MOUNTED  
71 03-004 COOLER, FLO SMPL WTR TYPE I SHL/CL DSN, TYP II DB TB  
72 03-006 COOLER, AIR  
73 03-011 COOLER-FLUID, RADIATOR ENGINE COOLANT  
74 03-015 COOLER-AMINE  
75 32-011 COOLER-AIR FLOW UNIT  
76 32-010 COOLING COIL-AIR, DUCT TYPE AND GRAVITY TYPE  
77 46-005 COUNTERS AND TOTALIZERS  
78 NOT ASSIGNED  
79 51-001 COUPLING-FLEXIBLE, SOUND ISOLATION  
8A NOT ASSIGNED  
8B 80-004 BRAKE-MANUAL  
8C 28-012 COMPASS COMPENSATING EQUIPMENT  
8D 43-018 DOUGH MIXING MACHINES  
8E NOT ASSIGNED  
8F NOT ASSIGNED  
8G 25-021 GYRO COMPASS EQUIPMENT-RELAY TRANSMITTER  
8H NOT ASSIGNED  
8I NOT ASSIGNED  
8J 22-013 SWITCHBOARD-POWER  
8K NOT ASSIGNED  
8L 878 AMMUNITION HANDLING AND STOWAGE  
8M 86-014 MOUNT-FILM SLIDE, PHOTOGRAPHIC  
8N 43-019 RANGES AND OVENS-OIL BURNING-SEE ALSO GALLEY EQPMT  
8O NOT ASSIGNED  
8P 29-003 PRIMER-ENGINE STARTING, ETHER INJECTION  
8Q 01-002 PUMP-RECIPROCATING, DIRECT ACTING AND POWER DRIVEN  
8R NOT ASSIGNED  
8S 25-017 STABILIZER-GYRO  
8T 67-009 TOILET-MARINE  
8U NOT ASSIGNED  
8V 26-004 VIEWER - STILL PICTURE  
8W NOT ASSIGNED  
8X NOT ASSIGNED  
8Y 02-004 BOILER-AUXILIARY, HP STEAM, OIL FIRED  
8Z 21-006 SWITCHES-GENERAL  
80 01-032 PUMP UNIT-CENTRIFUGAL, POWER DRIVEN, PORTABLE (SELF-CONTAINED)  
81 78-001 COUPLING-FLEXIBLE, SHAFT  
82 01-034 PUMPING UNIT-HYDRAULIC, AIR DRIVEN  
83 NOT ASSIGNED  
84 01-035 PUMP-CENTRIFUGAL, PWR DRIVEN, (MULTI-STAGE) VERT DEEPWELL TURB DESIGN  
85 01-036 PUMP-JET, MAIN PROPULSION



CDC LAPL

86 01-C37 PUMP-RECIPROCATING, AIR DRIVEN, MISCELLANEOUS SERVICE  
87 78-004 COUPLING-FLEX, SHFT, AUXILIARY SERVICE  
88 02-002 BOILER-AUXILIARY, HP STEAM, WATER TUBE  
89 02-003 BOILER-AUXILIARY, HP STEAM, HORIZONTAL FIRE TUBE  
9A NOT ASSIGNED  
9B 80-005 BRAKE-HYDRAULIC  
9C COMPARTMENT  
9D 43-032 DOUGH PROCESSING MACHINE-POWER AND MANUAL  
9E NOT ASSIGNED  
9F NOT ASSIGNED  
9G 41-066 GRINDING MACHINE-TOOLS & CUTTERS  
9H NOT ASSIGNED  
9I NOT ASSIGNED  
9J 22-021 SWITCHBOARD-STATIC GROUP CONTROL  
9K NOT ASSIGNED  
9L SMALL ARMS  
9M 79-001 MUFFLER  
9N GRATINGS, FLOOR PLATES  
9O NOT ASSIGNED  
9P 86-002 PRINTER-PHOTOGRAPHIC  
9Q NOT ASSIGNED  
9R NOT ASSIGNED  
9S 31-029 STABILIZER-ACTIV FIN, RETRACTIBLE & NONRETRACTIBLE  
9T C25 TOWING GEAR  
9U NOT ASSIGNED  
9V 86-006 VIEWER PRINTER - MICROFILM  
9W NOT ASSIGNED  
9X NOT ASSIGNED  
9Y 54-013 CUTTER-PAPER, GUILLOTINE  
9Z NOT ASSIGNED  
90 NOT ASSIGNED  
91 R20 WINCHES AND CAPSTANS REPAIR PARTS  
92 78-011 COUPLING-RIGID, SHAFT  
93 78-009 COUPLING-HYDRAULIC  
94 78-012 COUPLING-CLAMP PIPE  
95 78-013 COUPLING-ELECTRIC INDUCTION  
96 93-018 COUPLING-HOSE, MISC SEE ALSO UNWAY REPLEN ACC  
97 57-001 CRANE-BRIDGE OR OVERHEAD TRAVELING  
98 57-002 CRANE-QUARTER  
99 57-003 CRANE-JIB